The

CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 30 1954



StaffordAllenS

English distilled and imported

ESSENTIAL OILS

PEPPERMINT

CLOVE

NUTMEG

LEMON

TCHOULL

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CEL EDV

CORIANDER

CHAMOMILE •

. LAVENDED

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STAFFORD ALLEN & SONS LTD., WHARF ROAD, LONDON, N.I.

Telephone: CLErkenwell 1000

TAS/AL.462





NOW helping your sales ...

The Glymiel Jelly
Winter advertising
campaign is in
full swing with

WHOLE COLUMN ADVERTISEMENTS IN LEADING WOMEN'S MAGAZINES

COLOURFUL POSTERS IN MAJOR PROVINCIAL TOWNS

ADVERTISING ON LONDON TRANSPORT ESCALATORS

Order stocks now!

TUBES 1/6 RETAIL, 8/- DOZEN TRADE AND 2/2 RETAIL, 11/6 DOZEN TRADE

FREE DISPLAY MATERIAL AVAILABLE ON REQUEST



Osborne, Bauer & Cheeseman Ltd

AGENTS: SANGERS LIMITED

258 EUSTON ROAD · LONDON · N.W.I AND AT NEWCASTLE AND BRISTOL



Special Pre-Budget Concession for Retail Customers

From the 1st February to 31st March, 1954, we will supply '4711' products on best terms on an order of any size, provided it reaches the minimum value of £1 at wholesale prices.

This is a special pre-Budget concession and will automatically be withdrawn in the event of an earlier announcement being made regarding Purchase Tax rates.

— Sole Selling Agents : —

SCOTT & BOWNE LTD. LONDON, W.1

Telephone: MAYfair 4422 50 UPPER BROOK STREET Telephone: HYDe Park 9216

THE

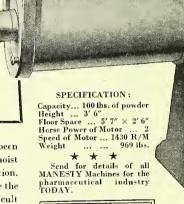
MANESTY

STAINLESS STEEL

MIXER

The MANESTY 'H' Stainless Steel Mixer has been designed for the intimate mixing of powders or moist masses and is especially suitable for tablet granulation. The powerful geared drive and sturdy paddle make the MANESTY 'H' Mixer ideal for dealing with difficult or sticky ingredients.

HAVE YOU THIS BOOK? "Tablet Making"— An authoritative volume by A. Little & K. A. Mitchell. 123 pages. 47 illustrations. 31 formulæ. Clotb bound 15/- net. Post free.



The 'H' Stainless Steel Mixer, Transparent plastic lid. Safety guard. Tilts to empty.

MANESTY

MANESTY

DEPT. 5 · SPEKE · LIVERPOOL 19

Telephone: Hunts Cross 1972 Telegrams: Manesty, Liverpool 19

 GRANULATORS PUNCHES & DIES WATER STILLS TABLET MACHINES · COATING PANS .



A Tremendously Powerful Campaign

Standard Bonus Parcels						
PARCEL	39 × 25 Capsules @ 2/6 F	leta	I.			
	Total retail value	£4		6		
E	Cost of parcel	£3	0	9		
PARCEL	26×5 ml. Drops @ 2/-	Reta	il.			
	Total retail value	£2		0		
F	Cost of parcel	£١	12	5*		
PARCEL 13×15 ml. Drops @ 5/- Retail						
	Total retail value	£3	5	0		
G	Cost of parcel	£2	0	6		
PARCEL 13×30 ml: Drops @ 9/- Retail						
	Total retail value	£5	17	0		
3	Cost of parcel	£3	12	11		
PARCEL	26 × 25 Capsules @ 2/6 F	Retai	1			
	13×100 " @ 8/6 F	letai	i			
	Total retail value	£8	15	6		
K	Cost of parcel	£5	9	4		
PARCEL	13×100 Capsules @ 8/6	Ret	ail			
	Total retail value		10	6		
L	Cost of parcel	£3	8	10		
PARCEL	13×15 ml.					
	Infants' Emulsion @ 3/	6 Re	tail			
P	Total retail value	£2	5	6		
	Cost of parcel	£١	8	4*		
*Postage extra on arders under £2 · 0 · 0 nett.						

Order How

The vast coverage of the press, National Dailies, Weeklies, Monthlies, Sports Journals, Mothercraft, Educational, etc. etc., is now reinforced twice weekly with programmes from Radio Luxembourg together with Colour Filmlets in 1,000 cinemas covering the whole country.

GENEROUS BONUS TERMS are available (including a new parcel K, 24 x 25 and 12 x 100 Capsules).

FULL RANGE OF SHOWCARDS.

DRESSED WINDOW DISPLAYS.

CROOKES

THE CROOKES LABORATORIES LIMITED . PARK ROYAL . LONDON N.W.10

The "SKYLON" Polythene SQUEEZE-Bottle Atomizer

Now available in

4 ATTRACTIVE PASTEL SHADES

NATURAL PINK BLUE GREEN

Has a use in every home for LIQUIDS & POWDERS

Used for spraying:

PERFUMES

TOILET WATERS

DEODORANTS

SHAVING LOTIONS

INSECTICIDES

ANTISEPTICS

TALC, etc

 No more Loose Parts ● Unmistakeable direction of Spray ● Leak-proof Taper Seal ● Spray adjustment through knurled Screw.

We also still supply the 'PUSH-IN' ATOMIZER WITH SCREW CAP

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From the Carnegie Range of Fine Chemicals

STRYCHNINE AND SALTS

CARNEGIES OF WELWYN

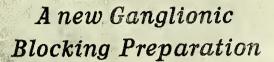
Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)

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METHIUM CHLORIDE

The past decade has produced unfortunately a steady but consistent rise in the number of cases of hypertension. Various drugs have been developed to combat this disease, though many have had to be abandoned because of the occurrence of side-effects, toxic reactions and the necessity for treatment in hospital.

Chilcott Laboratories have made extensive research into the problem of hypertension and, as a result, have developed Methium Chloride, an oral tablet ideal for ambulant patients.

Clinical tests with this product have been carried out both in the United States and in this country. So satisfactory have been the results, that already Methium Chloride is being used in hospitals and clinics here.

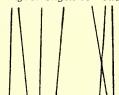
Following this evidence of its efficacy, Methium Chloride is being introduced to doctors throughout Great Britain. Literature and samples are being sent to them by post and advertisements will appear in the leading medical journals, as well as personal contact by our medical representatives. May we suggest that you order a supply as soon as possible.

CHILCOTT Laboratories.

SOLE DISTRIBUTORS: William R. Warner & Co. Ltd., Power Road, London, W.4. in the treatment of Hypertension

Packing and Prices:

Methium Chloride is an S.IV poison, not subject to purchase tax. It is supplied in bottles of 50 tablets of 125 mg. and 250 mg. strengths at 7/6 and 12/9 each respectively; list price per dozen 125 mg. strength 60/-, 250 mg. strength 102/-. Also bottles of 500 tablets for dispensing, 125 mg. strength 40/-, each, 250 mg. strength 68 - each to chemists.



Retail

4Winter handicap winners

by





- Unsurpassed in quality
- Sure selling
- Attractively packed
- Display material on request

	per	oz.
CATARRH and	s.	d.
BRONCHIAL SYRUP 4 oz. botts. (ctnd.)	11	3
CHEST VAPOUR RUB (ZIM BRAND)		
l oz. tins	9	9
CHEST VAPOUR RUB I oz. pots	9	9
CHILDREN'S COUGH SYRUP 21 oz. botts.	9	9
+ 25% Purchase Tax		

• Available for 'CHEMIST'S OWN BRAND' packaging and service

ARTHUR H. COX & Co. Ltd. MANUFACTURING CHEMISTS SINCE 1839

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SUSSEX

Special Announcement

WHITE-HUDSON & Co. Ltd. of SOUTHPORT



EXTENSIVE ADVERTISING CAMPAIGN

LEADING NATIONAL and PROVINCIAL PRESS

Get YOUR Stocks in Now of

"The Cough Sweet that's a Treat to Eat"



Evan Williams Liquid Lanolin Shampoo Advertising appears throughout the National Press ★ Each bottle contains enough for at least 3 shampoos.

Trade price 10/4d. per doz. (P.T. 2/7). Subject to reduction on Parcel Values.

★ SPECIAL INTRODUCTORY OFFER—13 to the dozen -minimum 3 dozen in a £2 parcel (minimum carriage paid) Can be included with other goods.

SALES DEPT. EVAN WILLIAMS CO. LTD., AINTREE ROAD, PERIVALE, MIDDX.

Germolene A WARNING

It has come to our notice that quantities of Germolene which were originally supplied some years ago to export markets, are now being offered at cut price to the trade in this country.

Samples of this ointment which is in the war-time pack have been examined in our laboratories and it is obvious that some deterioration has taken place following prolonged storage overseas. As a consequence the ointment is below the normal Germolene standard.

The purpose of this announcement is to make it clear that we cannot accept responsibility for stocks of Germolene obtained in this manner, and will not take any such returns for credit.

BEECHAM (NORTHERN) LTD · ST HELENS · LANCS

Sole Distributors for VENO DRUG CO LTD St Helens

2

ESSENTIALS

For good window display

"DRIPANE" Discs

TO PREVENT STEAMY WINDOWS

and

"AD-ON" Price Tickets

SEND FOR DETAILS

James Townsend

AND SONS LIMITED

SPECIALIST CHEMISTS' PRINTERS

LITTLE QUEEN STREET, EXETER

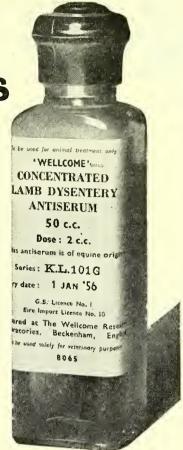
Also The Orchard Press, Eastcote, Pinner



WANTED within 12 hours

'Wellcome' Concentrated Lamb Dysentery Antiserum should always be to hand. It must be administered to lambs within 12 hours of birth. For this reason, pharmacists should lay in stocks well before the lambing season starts.

The antiserum—used with unvarying success on countless farms in previous lambing seasons—gives an excellent level of protection against dysentery in lambs. In addition, it bestows immunity against pulpy kidney disease during the first three to four weeks of life. A sound investment for farmer and for pharmacist, the antiserum is supplied in rubber-capped containers of 50 c.c. (25 doses) at a list price of 28/-. Showcards, leaflets and advertising stereos are all available to stimulate your sales. National advertising in the farming press will extend from January to March.





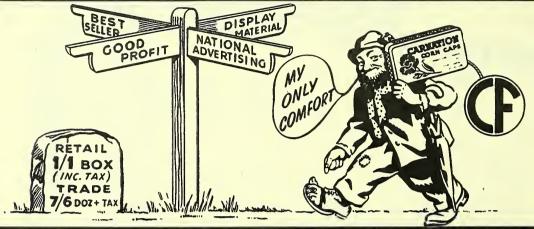
'WELLCOME' Concentrated LAMB DYSENTERY ANTISERUM

PREPARED AT THE WELLCOME RESEARCH LABORATORIES, BECKENHAM, ENGLAND



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

CARNATION CORN CAPS



Still the most popular Corn remover

and for Callouses - CARNATION CALLOUS CAPS

A PRODUCT OF

Cuxson Gerrard & Co. Ltd.
OLDBURY BIRMINGHAM.

CONCESSION

for

CHEMISTS DEPARTMENT

in Departmental Store

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COVENTRY CITY CENTRE

Apply to:

ROWLAND HARTRICK LTD., 57 Warwick Rd., B'HAM II

ISOVAC

The name for the best and the best value in VACUUM FLASKS

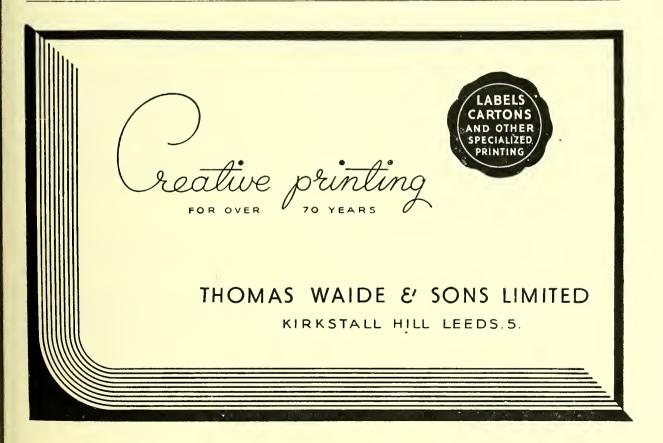
I PINT 4/II . 1½ PINTS 7/- . 2 PINTS 78/- 8/6

FROM YOUR WHOLESALER IN CASE OF DIFFICULTY WRITE TO





MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines) ANCH WAREHOUSE: GROSVENOR ST., ASHTON under LTME. Tel: 2816 (3 lines)





OVER IS MILLION PEOPLE REGULARLY SEE THE NEW ADVERTISING NOW APPEARING IN NATIONAL AND SUNDAY PAPERS

> FOR THE FOLLOWING SAVORY & MOORE QUALITY PRODUCTS

Dr. JENNERS

Absorbent Lozenges for Indigestion

OUINASP Influenza Capsules

CHILDREN'S BLACK CURRANT LINCTUS

ARE YOU READY TO SUPPLY?

Write now for Bonus Terms and details of Free Display Matter

Savory & Moore

Standard Works, Lawrence Rd., Tottenham, N.15

The Silky Soft Absorbent Tissue that is preferred



Tissues have come to stay - it's just a case of selling the BEST to make and keep customers. VANITY are produced by THE PAPER SPEC-IALISTS-packed attractively and come to you in display cartons

worthy of your windows and counters.

BOUDOIR CARTONS

(150 in White or assorted Pastel colours) or Cellophane Wrapped 150 and 180; assorted shades if required.

for Travel, School, etc. (24 large size White Tissues) In the carton that does not disintegrate in use.

FREEDER BROTHERS PAPER MILLS BRIMSDOWN, ENFIELD, MIDDLESEX Telephone: Howard 1847 (3 lines) Telegrams: Sylkocrepe, Enfield, Middlesex



Warm and happy! A moulded hot water bottle that brings perfect comfort. Equally popular with mother and baby. Engraved with three lovely exclusive designs and made in Pink and blue.

NITEY-NITE REGD.

CHILDREN'S HOT WATER BOTTLE

Also full size bottles with new surface engravings

Write for the name of your nearest wholesaler to:-HYTEX LIMITED. 304 LATIMER ROAD, LONDON, W.10 Ladbroke 1445

SUBSTANTIAL PROGRESS

The efficiency of the expert should increase with the development of new techniques and methods, better equipment, scientific progress, etc.

So it is with us—for over a hundred years we have been developing our "know how."

We are experts in the making of tablets — tablets for the pharmaceutical profession which are as good as tablets can be.

OFFICIAL OR PRIVATE FORMULAE

SERVING INDUSTRY

The hundreds of uses for tablets or pellets in industry are just a part of our "know how." Where there is a need for using powder or granular material in accurate quantities, there is a good chance that tablets can help.

NO WASTE SAVE TIME

INCREASE EFFICIENCY

Pharmaceuticals, Foods, Plastics, Catalysts, Light and Heavy Chemicals, Salt, Lime, etc., etc.

From the "odd 100" to "dozens of millions".

QUALITY FIRST

THOMPSON & CAPPER

WHOLESALE LTD

MANUFACTURING CHEMISTS

SPEKE.

Telegrams - SANITAS

LIVERPOOL

Telephone - HUNTS CROSS 1321

Fad and Fashion

Fad and fashion enter even into seeking relief from common ailments. There is always an audience for the new amazing ingredient, the Hollywood diet of the moment and—of course—the personally guaranteed 'cure' for a streaming cold . . .

Some of the remedial claims made today are much in the spirit of those made in the 80's for Martha Gunn's dip-in-the-briny at Brighton and the burnt brown paper magic for swooning maidens.

However, the products which the chemist can depend upon for solid, steady sales are those which have never needed newfangled support. Rennies, for example.

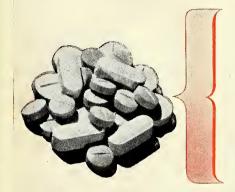
From the start, the worth of Rennies was proved and the brand has gained continuously increasing acceptance. The Rennies formula is recognised for its effectiveness; it is in line with responsible medical and pharmaceutical thinking. As a result . . .

More people get relief with RENNIES than with any other indigestion tablet

STILL packed in popular sizes . . .

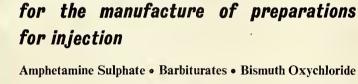
25 tablets, 9½d. 50 tablets, 1/6d. 100 tablets, 2/8d.

SOME M&B PHARMACEUTICAL CHEMICALS



for the manufacture of tablets

Acetarsol • Barbiturates • Bismuth Salts • Bromides Caffeine Alkaloid and Preparations • Calomel • Carbarsone Codeine Phosphate and other Opiates • Dextro-amphetamine Sulphate • Isoniazid • *l*-Methylephedrine Hydrochloride Methadone Hydrochloride • Phenytoin Sodium • Theobromine Alkaloid and Preparations



Bismuth Salicylate • Caffeine and Sodium Benzoate • Cocaine Alkaloid and Salts • Mersalyl • Methadone Hydrochloride Methylamphetamine Hydrochloride • Opiates

> We shall be pleased to receive enquiries for these or any other pharmaceutical chemicals in our range.

B Pharmaceutical Chemicals

DAGENHAM

MAY & BAKER LTD

Telephone: ILFord 3060 · Extension 220 Manufacturers of fine chemicals since 1834

ASSOCIATED HOUSES: BOMBAY · LAGOS · MONTREAL · PORT ELIZABETH · SYDNEY · WELLINGTON Branches and Agents throughout the World

1954 TOOTHBRUSH BONUS OFFER

is your big opportunity to cash in—right from the start
— on the new SPA principle GRADE GUARANTEED TUFTS

Every SPA Toothbrush — Hard, Medium or Extra Hard — is now guaranteed to be of the texture marked.

This outstanding advantage applies to both Bristle and SPARKLON

It will save customer disappointment and bring you repeat sales

Prices are still the same — SPARKLON 1/8 BRISTLE 2/2

SPARKLON the new extra flexible nylon is kind to the teeth and does not break, wilt or splay



OW FOR THE BONUS OFFER:

Setween now and 31st March every SPA Toothrush you order will bring you nearly 100% profit

WHAT YOU GET	WHAT IT COSTS YOU	WHAT IT SELLS FOR
doz. Spa Sparklon Shorthead Toothbrushes No. 4	£ s. d.	£ s. d.
Doz. Spa Sparklon Spearhead Toothbrushes No. 5	12 6*	2 0 0
Doz. Spa Bristle Shorthead Toothbrushes No. 4	17 6	170
Doz. Spa Bristle Spearhead Toothbrushes No. 5	17 6	1 7 0
Because one doz, are supplied FREE	£3 12 6	€ 6 14 0

3. 1. 6 profit on £3. 12. 6 invested—nearly 100% on cost

e sure to order enough parcels so that you don't miss single penny of all the extra profit that can come your ay. For the same reason, order right away — NOW!

Aillions of brushes made and waranteed by SPA were sold in 953 — how many did you sell?

EVERYTHING IS LAID ON. To make 1954 a bumper year for you.

- **£** Extensive National Advertising
- **£** Sparklon—the new nylon at 1/8
- **≰** Showstand of entirely new and novel design
- **Double profit bonus scheme for a low outlay**
- **€** Grade Guaranteed Tufts

BONUS OFFER COUPON	I
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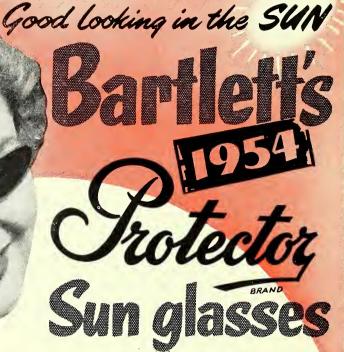
TO

SPA BRUSHES LTD, **CHESHAM - BUCKS**

Please send me 1954 BONUS PARCELS.

Please attach letter heading or label.

My wholesaler is



YOU know the Bartlett Range! it always brings you the widest selection of modern sun glasses all that's best in British. French and Italian styles for every occasion, at prices from 6d. to 3 guineas. This year there are new shapes, new materials, new colours in Children's, Teenagers' and Adults' Sun glasses and Clip-overs, Plastic and Metal Frames.



Wonderful value child's Sunglass. Crookes Lenses, pin-hinges, 2 shapes, various colours. Carded 12 assorted.

 $10\frac{1}{2}d.$



New popular shape for men or women. Crookes Lenses. Choice of Colours. 12 to a display card. RETAIL 1/6



Optically finished in 4 designs. Crookes Lenses. Re-inforced 5/9 RETAIL 5/9

Write NOW for your free copy of the 1954 Bartlett Booklet



Clip-



Sliding bar style. 2 shapes, Panto or Quadra. Crookes Lenses. NICKEL FINISH: 3/6 Retail. GILT FINISH: 4/3 Retail.

ROAD 226/8, LONDON

TELEPHONE: **TERminus** 9865/8



Aii Wholesale enquiries to this address please.

To introduce

NURSE HARVEY'S BABY POWDER

the powder containing pure

OLIVE OIL

we are embarking on a strong campaign in the women's magazines reaching over eight million readers.



EVERY MOTHER
IN THE COUNTRY
WILL KNOW ABOUT THIS
WILL KNOW ABOUT THIS
WILL KNOW ABOUT THIS

through the forthcoming continuous advertising

BE READY TO MEET THE DEMAND THERE IS SURE TO BE FOR THIS



Generous trade terms and attractive display material available



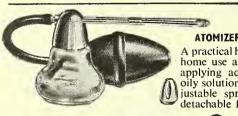
O. SCRUTON & CO. LIMITED YORK

MADE BY THE MAKERS OF THE FAMOUS NURSE HARVEY'S MIXTURE

Designed for specific uses -

DEVILBISS atomizers

DeVilbiss offer for general use a com-plete series of instruments that satisfy the highest medical requirements.



ATOMIZER No. 15

A practical hospital and home use atomizer for applying aqueous and oily solutions. With adjustable spray tip and detachable fluted nasal

POWDER BLOWER No. 36 Diffuses powder evenly and perfectly. Adjustable tip.



ALL-GLASS NEBULIZER No. 5



ALL-GLASS ATOMIZER No. 7

Suitable for oily or aqueous solutions.



For aerosol therapy, Volume of vapour can be increased by removing the stopper from the vent hole in the



NASAL ATOMIZER No. 20

Produces a medium spray from either oily or aqueous solutions.



SPRAY No. 326

For spraying disinfectants and other solutions from original container. Ideal for demonstrating perfume and toilet water.

ATOMIZER No. 82 A nose and throat spray for either oily or aqueous solutions.



ATOMIZER No. 29 Gives a continuous spray, with detachable nasal



THE AEROGRAPH CO.

(Atomizer Division)

Lower Sydenham, London, S.E.26

TELEPHONE: SYDENHAM 6060 (8 LINES)

т.а. 5723

Quick Selling! Nationally Advertised! and the second



MEANS

Lovely Permanent Hair Colouring

ANY SHADE OF YOUR CUSTOMER'S CHOICE

Inecto-Rapid has been famous for over 40 years as the supreme recolourative for grey and white hair. Backed by regular announcements in the Daily Mirror, Daily Sketch, Sunday Pictorial and other leading papers, the new Four-in-One series is leaping into popularity as the easy, pleasant means of restoring new, magical loveliness to hair that is faded or just showing those first grey streaks.

> Available (Rapid and Four-in-One) in attractive Home Packs.

PRICES

Small size (IA & IB bottle) 2/6 wholesale (plus P.T.), retailing at 5/6.

Large size (4A & 4B bottles) 7/- wholesale (plus P.T.), retailing at 15/9.

If you are not already stocking Inecto, the magic name in hair colouring, write at once for full particulars.

INECTO ENQUIRY BUREAU 27 DOVER STREET · LONDON W·1

Hyde Park 7541 (12 lines)



There's very little wrong with him really except...

...THREADWORMS, which can be rapidly eliminated with 'Antepar' brand Elixir, a stable preparation of piperazine, which wide clinical experience has confirmed as the most efficient oxyuricide in use today.

The stringent hygienic measures usually associated with threadworm treatment are not necessary with 'Antepar', nor is there need for any special regimen of fasting and purging.

'Antepar' Elixir, with its pleasant flavour, is readily accepted by children of all ages, and is well tolerated at the recommended dosage level. It contains 500 mgm. of piperazine hydrate per fluid drachm and is available in bottles of 4 fl. oz. (6/6 plus 1/3 P.T.) and 20 fl. oz. 24/9—exempt P.T.) subject to discount.

ADVANTAGES

OUTSTANDING EFFICACY

RAPID CURE

TOLERATED

ADMINISTERED

PLEASANTLY FLAVOURED

NO SPECIAL







tablets -

for gastritis and peptic ulcer, both chronic and acute.

Particularly indicated for the effective treatment of peptic ulcer cases of long standing and those refractory to other types of therapy; also for cases of post-operative relapse and recurrence.

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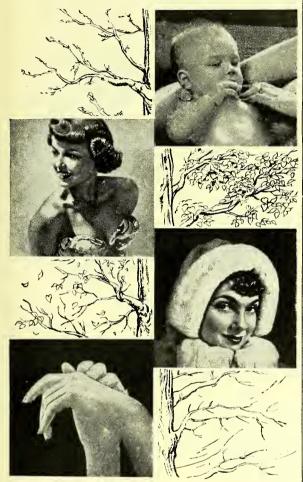
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ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 161

January 30, 1954

No. 3858

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Volume 161

JANUARY 30, 1954

No. 3858

Proprietary Medicines

CHANGES IN COHEN COMMITTEE'S LIST

AN amended list of proprietary medicines classified by the Joint Committee on Prescribing (see C. & D., 1953 II, 73) has been issued by the Ministry of Health and the Department of Health for Scotland.

The list, which contains both alterations and additions, should now be in the hands of chemist contractors. The following are the additions to Categories 5 and 6 of the Joint Committee's list:-

Category 5

(Non-official preparations not considered as of proved therapeutic value.) An e ior pituitary ampoules, Glaseptic, P.D. & Co.; anterior pituitary gland Emplets, P.D. & Co.; Biocholine ampoules; Cardiazol liquid; Collosol ferrum, r.c. vials; corpora lutea Emplets; Fiexaphyll cream and tablets; Luteoantin suppositories; Nutri-Sal; parathyroid gland Emplets; pregnenolone tab-lets, Roussel; Prostan tab ets; Staticin caronamide; Steroxin ointment; Taoryl tablets.

Category 6

(Preparations which are a combination

of categories 4 and 5.)

Ad.eph cream; Aluzyme powder and tab.ets; Boldotaxine; children's tonic, Ayrton, Ayrton Saunders & Co., Ltd.; Cortiforte D.P.; Dc-Nol; elixir b omovalerian co., Wyleys, Ltd.; elixir ephedrina co., Wyteys, Ltd.; elixir glycerophose. by the constraint of the const anal ointment, dusting powder, ich-thammol powder, paste and supposi-tories; Fogyl; Formulac; Globeo!; Glaseptic gycerophospha'e compound ampoules; Hipanthycal Tropers; Ivestron compound liver extract; Jubol; lithium hippurate co. Pulverettes; Maro one; Masse nipple cream; m.swase inplie cream; m.stura Vigorans; Nidoxital; Rheumacillin granules, Spa Tone brand, G. C. G. Hilliar; Sil A terata; sy up cocillana co., Wyleys, Ltd.; Torostrol; triple Sufa ceim, Ortho Pharmaceutical, Ltd.; Urodonal; Wade's puissant abscess salve, Wade Pharmaceuticals, Ltd. Ltd.

The following are the deletions from categories 5 and 6:-

Collosol cuprum ophthalmic (product discontinued): Collosol cup um o al solution (product discontinued); Collosol iodine pastilles (soft base) and pessaries (products discontinued); Collosol

mercury sulphide 1 per cent, ampoules and oral solution (products discon-tinued); Neutraphylline (transfer, ed to tablets and suppositories (transferred to category 4); pregnenolone Glossettes; Selsun suspension (now category 3); Sobisminol capsules (product discontinued); stilboestrol spray, Crookes Laboratories, Ltd. (product discontinued).

Category 6

A-C troches, Abbott Laboratories, Ltd. (product discontinued); Complebin injection, forte injection, and tablets (now category 4); Complebin syrup (now category 3/4); Diuposan (now category 4); Glandiposan tablets, and forte tablets (now category 4); Hormofemin compound tablets (now category 4); N.63 cachets, Antigen Labo atories, Ltd. (now category 4); Neutraphylline, with phenobarhitone Neutraphylline wi'h phenobarbitone, suppositories and tablets (now cate-Neutraphylline-papaverine phenoba bitone suppositories, and tablets (now category 4); Neutrapirine, suppositories, and tablets (now category 4); Paratex (now category 4); Parivitan tablets (now category 4);

P.C.O., Gedeon Richter (G.B.), Ltd. (now category 4); P.C.O. infans (now category 3/4); Vi-Magna granules (product discontinued).

The e are also a number of deletions and insertions for category 1.

STUDENTS FROM CHILE Ten-day visit to Britain

TWENTY-TWO third year students of the chemical faculty of the university of Chile, with three professors and three pharmaceutical chemists, arrived in London on January 24 under the leadership of Professor Eduardo Schalscha Becker for a ten-day stay in Britain at the invitation of The Association of British Pharmaceutical Industry. They have been visiting pharmaceutical factories in Western Germany and France, and will later make similar tours in Italy and Spain before returning to Chile in March to sit for returning to Chile in March to sit for their final examinations as pharmaceu-tical chemists. During their stay the party will be the guests of several leading British pharmaceutical manu-facturers and will visit plants and research laboratories in the London area, Midlands and Scotland. On January 25 they were guests of the Phaima-ceutical Society of Great Britain at an informal dinner in London.

ERYTHROMYCIN Availability and indications

THE Ministry of Health announces that e-ythromycin is shortly being made freely available on prescription. In readiness, the following note on its



CHILEAN STUDENTS AT DAGENHAM: A party of pharmacy students from Chile, in Britain on a ten-day visit arranged for them by the Association of British Pharmaceutical Industry, commenced thei: tour with a visit to the works of May & Baker, Ltd. They are seen watching the centrifuging of a barbiturate.

indications has been prepared by the Medical Research Council:-

Erythromycin has a range of activity similar to that of penicillin and has been shown to be effective in acute infections due to hamolytic streptococci, pneumococci and staphylococci. Organisms resistant to all other antibiotics are sensitive to it; hence its greatest value is in treating tt; hence its greatest value is in treating staphylococcal infections not responsive to other drugs. A peculiar form of infection in which its action may be life-saving is the severe staphylococcal enteritis, complicating therapy with the broad spectrum antibiotics or with penicillin and streptomycin. Some other species, including members of the genera Neisseria and Hæmophilus and Ricketisias, are also sensitive to it. Bacterial resistance to erythromycin can be acquired rapidly, and that may be a cause of treatment failure in infections difficult to eradicate, such as endocarditis, Bacteria rendered resistant in one patient may later cause infections in others who are insusceptible to the drug from the outset. It might be disastrous if a staphylococcal population were built up which was resistant to erythromycin as well as to earlier antibiotics. It is therefore necessary that the drug should not be prescribed indiscriminately. Penicillin should, therefore, be preferred when it will serve equally well. Erythromycin should not be prescribed for most chronic conditions or for those in which the besterial staphylococcal infections not responsive to not be prescribed for most chronic conditions or for those in which the bacterial cause is unknown.

Copies of the note are being sent by the Ministry to all hospitals.

MERCHANDISE MARKS Act operates from February 1

TRADERS are reminded of the coming into force of Section 1 of the Merchandisc Marks Act, 1953 (see C. & D., 1953.II.207), on February 1. The whole of the Act, which strengthens the law relating to merchandise marks and increases the penalties for offences, will then be in operation. Under the Mer-chandise Marks Acts, 1887 to 1953, it will be an offence to apply a false or misleading trade description to goods or to sell goods to which a false or misicading trade description is applied. "Trade description" will mean any description, statement, or other indica-

tion direct or indirect
(a) as to the number, quantity, measure, gauge or weight of any goods;
(aa) as to the standard of quality of any goods according to a classification

commonly used or recognised in the trade; (ab) as to the fitness for purpose, strength, performance or behaviour of any

goods;
(b) as to the place or country in which any goods were made or produced;
(c) as to the mode of manufacturing or producing any goods;
(d) as to the material of which any

goods are composed;

(e) as to any goods being the subject of an existing patent, privilege or copy-

HOSPITAL APPRENTICES Agreement on salaries

UNDER an agreement reached by Committee C of the Pharmaceutical Whitley Council and published on January 21 the following salaries apply to pharmaceutical students in hospital service from January 21 the salaries apply to pharmaceutical students in hospital service from January 21 the salaries are salaries as a service from January 21 the salaries are salaries as a service from January 21 the salaries are salaries as a service from January 21 the salaries are salaries as a service from January 21 the salaries apply to pharmaceutical students are salaries as a service from January 21 the salaries apply to pharmaceutical students are salaries as a service from January 21 the salaries apply to pharmaceutical students are salaries as a service from January 21 the salaries apply to pharmaceutical students are salaries as a salaries apply to pharmaceutical students are salaries are salaries and salaries are salaries are salaries are salaries and salaries are sal

	FIRST	SECOND YEAR
Pregraduate students	£ p.a.	£ p.a.
having passed the intermediate exam- ination Those who have not	165	190
passed the exam- ination	145	170
Postgraduate students	350	

London weighting is also provided at the following rates: Age less than twenty-one years, £10 per annum; 21-25, £20; twenty-six and over, £30.

IRISH NEWS

Ulster Associates' Section

AT the January meeting of the Ulster A1 the January meeting of the Ulster Associates' Committee, the following applications for associateship were approved:— Pharmaceutical Chemists, Messrs, J. G. Boyle, B. Boyle, A. Little, D. McKavanagh; Assistants, Miss A. Fletcher, Messrs. E. H. Casey, P. Cassidy and P. McGarrity; Apprentices, Misses M. McDermott and M. Hanratty Messrs. A Frew J. G. Han-Hanratty, Messrs. A. Frew, J. G. Hannon, F. McCaughan, and J. Webb. The secretary was requested to send the best wishes of the committee to Messrs. H. R. Kelly and I. Miller who have resigned from the Associates' Section upon acquiring their own businesses. It was agreed to invite Messrs. W. Mitchell and W. T. Hunter to act on the Committee. A report of the social subcommittee was given and further arrangements were discussed for the annual dance. Later in the avening a discussion took place with evening a discussion took place with the chairman (Mr. J. Hill) and the secretary (Miss M. F. F. Orr) of the Society of Pharmaceutical Students concerning mutual problems.

Chemists' Golfing Society

THE Irish Chemists' Golfing Society held its twenty-seventh annual meeting in Dublin recently with a large attendance. Mr. W. F. M. Keyes (captain) presided. The reports of the treasurer (Mr. E. MacManus) and the secretary (Mr. P. Fahey), which were adopted, showed that the Society had a very successful season and was in a flourishing condition. ing condition, Mr. C. A. Collis was unanimously elected *Captain* for the ensuing year and the *Secretary* and Treasurer were unanimously re-elected. Arrangements for the 1954 season were discussed and the details left in the hands of the committee. Votes of thanks were passed to the outgoing captain and to the officers,

Limerick Dance

THERE was a carnival atmosphere at the Limerick Chemists' Annual Ball, which was held in Limerick recently. Tickets had been sold out well in adlickets had been sold out well in advance. A large party which travelled from Dublin for the occasion included Messrs. M. Costello (president, Pharmaceutical Society of Ireland), H. P. Corrigan (treasurer), J. G. Coleman (registrar), T. R. Bourke (president, Irish Drug Association), D. J. Murphy (vice-president, I.D.A.) and Dr. Eoin Dowling, Limerick chemists and their Dowling. Limerick chemists and their friends were present in full force, and there were also many pharmacists from the adjoining counties.

Registered Druggist Examination

THE successful candidates at the January Registered Druggist examination of the Pharmaceutical Society of Ireland were Messrs. Patrick A. O'Hara and Patrick J. Ryan.



LIMERICK CHEMISTS' ANNUAL BALL: Group photographed at the Limerick chemists' annual hall recently. Front row (left to right), Miss P. Hanley, Mrs. M. Power, Mr. James G. Coleman (registrar of the Parma ceutical Society of Ireland), Mrs. M. Pennington, Mr. M. Costello (president of the Society), Mrs. W. Ferguson, Mr. H. P. Corrigan (the Society's treasurer), Mrs. T. R. Bourke, Dr. E. Dowling, Mrs. L. Gaule, and Mr. T. R. Bourke (president of the Irish Drug Association), Immediately behind Mr. Bourke is Mr. Maurice Power, Limerick's representative on the Pharmacentical Society's Council.

LOCAL NEWS

Donation to Orphan Fund

OVER sixty chemists and their wives and friends attended a New Year party given by the Finchley Division of the North London Pharmaceutical Association on January 6. A profit of £15 was made and it will be sent to the Society's Orphan Found. The guests were welcomed by Mr. John A. Peile (chairman), and Miss Peile.

Rota or Extended Hours?

FOLLOWING an announcement by Timothy Whites & Taylors, Ltd., that their local branch would withdraw from the rota and provide instead a regular extended dispensing service, the Dudley, Worcs, Executive Council decided at a recent meeting that the company should be asked to adhere to existing rota arrangements.

Thirty Years' Service

A DINNER, held in London on January 15, to mark the thirtieth year of service by Mr. A. E. King with Pond's Extract Co., Ltd., was attended by his fellow directors and representatives of the company in Great Britain. Mr. King was presented with a gold watch from the company and a grandmother clock from the directors and staff. He had represented Messrs. Pond in north-west England for twenty years until his appointment as sales manager. In 1950 he became sales director.

NEWS IN BRIEF

Industrial Training Films.—The Central Office of Information is operating a scheme under which short educational films on various aspects of industry are being made available for hire to manufacturing companies.

Index of Retail Prices.—On December 15, 1953, the official index figure, which measures changes in the average level of retail prices compared with the basic level on June 17, 1947 (taken as 100), was 140, the same figure as on November 17, 1953.

Cortisone and ACTH Uses.—On the advice of the Medical Research Council the Ministry of Health has decided to include acquired hæmolytic anæmia and thrombocytopenia purpura among the conditions for which cortisone and ACTH is being made freely available at special centres.

Specially Expensive Drugs.—Doctors are being informed [for purposes of remuneration] that phenylbutazone, urine sugar analysis set, penicillin tulle, and diagnostic solution-tablets of copper have been added to the list of specially expensive drugs, appliances and reagents.

Everest Photographers Honoured.—The council of the Royal Photographic Society has conferred honorary membership on Messrs. Alfred Gregory and Thomas Stobart in recognition of their outstanding achievements in recording the progress of the ascent of Mount Everest, Mr. Gregory being responsible for the still photography and Mr. Stobart the cinematography.

TOPICAL REFLECTIONS

By Xrayser

Landlords and Tenants

The progress through Parliament of the Landlord and Tenant Bill, an outline of which you have given on pp. 85-86, should be watched by all who have interests in property, whether as landlords or as tenants. The Landlord and Tenant Act, 1927, in force since March 25, 1928, has, so far as my observation goes, not given rise to much, if any, great difficulty. of interpretation; it is permissible to record a passing regret that most of it will be superseded by the new Act. The most important change proposed, I gather, is that a shop tenancy will continue, notwithstanding that it has been granted for a definite term, till notice is given by the landlord in the manner laid down. Whether the tenancy would have ended by effluxion of time or by the service of notice to quit is immaterial. A request for a new tenancy can be made by a tenant for terms exceeding a year if he has neither given nor received statutory notice of termination. Among the miscellaneous amendments proposed in the general law of landlord and tenant there is an "extension of the restrictions on the requirements of the execution by a tenant of repairs." The possibility of further amendments being incorporated in the Bill must not be overlooked; but the chances are that they will be few and formal.

Infectious Diseases

The latest instalment of "Essentials of Treatment" (pp. 90-91) covers matters that pharmacists should know regarding infectious diseases. Beginning with pathogenic bacteria and viruses. the author distinguishes between medicines that are administered for attacking the invaders and others designed to provide symptomatic relief. Discussing the use and abuse of clinical thermometers, your contributor remarks that "a knowledge of the temperature of the patient is only of value when considered in relation to the rate of the respiration and the pulse." The danger of giving toxic doses of antipyretics can be obviated by the alternative of tepid sponging of the patient. So useful a hint should be more widely known. As to preventing the spread of an infection, "it is not now the practice," except in cases of smallpox, "to fumigate the room and sterilise the bedclothes by dry heat after their use in a case of infection." Particular care, it is added, should be taken concerning handkerchiefs, and paper ones should preferably be used. The advice about attendants wearing gowns in the sick room while looking after the patient would bring about conditions comparable to those of aseptic technique.

Victorian Reminiscences

Mr. J. H. Gough's genial reminiscences (pp. 88-89) take us back to the last years of Queen Victoria's reign. Those who were at the Leeds meeting of the British Pharmaceutical Conference in 1934, when Mr. Gough was chairman of the Executive Committee, gratefully remember his courtesy; and it is pleasant to know that he is active in retirement. His mention of "that marvellous teacher Dr. Muter" awakens memories. Muter's lectures on chemistry included a sporting element. Each student's name was written on a card, and cards were chosen, apparently at random, from the set. During a lecture three questions were put to each candidate thus selected. one student being appointed "marker." If two were answered correctly the marker called out "Safe"; if two incorrectly, the verdict was "Fatal," and the card went into a basket provided for the purpose and presented by the students. Sir Squire Bancroft, another worthy from Mr. Gough's collection, could not be mistaken for anyone else when walking in the West End: the stove-pipe hat of unfashionable shape and the blackrimmed monocle with its black ribbon were quite distinctive. Sir Tatton Sykes's habit of wearing two or three overcoats simultaneously was shared by a man I knew; possibly it had been publicly advocated by some popular author.

LOCAL DINNERS AND DANCES

EXETER

Presentation to N.P.U. Chairman

TWENTY-ONE members and friends attended a compumentary dinner to the chairman of the Executive of the National Pharmaceutical Union recently. The branch chairman (Mr. W. H. James) presided and Mr. C. R. W. H. James) presided Mr. Mr. Maritan presented Mr. recently. Manley, Honiton, presented Mr. Holmes with an electric shaver. Mr. HOLMES said that the area conference held at Exeter in 1951 had been the prototype of a series of area meetings in various parts of the country and had influenced the policy of the Executive in maintaining contact with its membership. He complimented the Exeler branch on its co-operation in the present Chemists Federation campaign and stressed the need for continuing the pressure in that direction.

BIRKENHEAD AND WIRRAL

Lord Mayor as Guest

THE Birkenhead and Wirral Pharmacists' Association held their annual dinner and dance in New Brighton on January 14, 130 membe s being present. The guests included the lord mayor of Liverpool (Alderman W. J. Tristram, a past president of the Pharmaceutical Society), the mayors of Wailasey and Birkenhead, Mr. C. Burlinson (president of the Manchester Pharmaceutical Association), Mr. A. Broadwell (chairman of Bebington and Mid-Wirral Chemists' Association) and Mr. F. Allen (chairman of Wallasey

Mr. F. Allen (chairman of Wallasey Pharmacists' Association).

THE LORD MAYOR OF LIVERFOOL replied to the toast "The Pharmaceutical Society" proposed by THE PRESIDENT of the Association (Mr. R. C. N. Powell). The toast "The Ladies" was plopoled by Mr. E. G. Frost and "The Guests" by Mr. H. B. Harrop (vice-president of the Association).

PORTSMOUTH

Menu in Latin

At the annual dinner of the Portsmouth branch of the Pharmaceutical Society held in Southsea recently, the lord mayor of Portsmouth (Mr. Frank Miles) and the vice-president of the Pharmaceutical Society (Mr. E. A. Brocklehurst) were the guests of honour. A total of 193 attended the dinner, the menu for which was written

in latin and in the form of an EC10. The "civic toast" was proposed by MR. H. N. GRIFFITHS (chairman of the branch) who said that pharmacists were particularly proud of those members who had risen to prominence in Mayor said that the city council shared with pharmacists some of the responsibility for the protection of the public, and had received nothing but co-operation from the Pharmaceutical Society's members. The lord mayor felt that one of the greatest tributes paid to any organisation was paid to the Pharmaceutical Society by the Government, which entrusted entirely to the Society the enforcement of the poisons regulations. Dr. W. TAYLOR (principal,

Municipal College, Portsmouth) proposed the toast "The Pharmaceutical posed the toast "The Pharmaceutical Society," saying that the college was grateful to the Society for its encouragement in the work done there, and also for the loan of a calculating machine, which would greatly assist their research work. He also thanked the Portsmouth branch for its interest in the College's pharmaceutical students. Mr. Brocklehurst said he was grateful for the opportunity of commending the Portsmouth branch for its gencrous response to the appeal on behalf of flood victims, and for their generosity Fund. towards the Benevolent

The toast of "The Ladies and Guests" was proposed by the vice-chairman (Mr. L. J. Chamberlain) and response was made for the ladies by Mrs. Griffiths, and for the guests by Mr. R. E. Morgan.

NORTH LONDON

Community well Served

RETAIL phaimacy served the com-RETAIL phaimacy served the scommunity well by providing a dispensing service at its doorstep, said MR. CARL NORMAN, proposing "The Phaimaceutical Society" at the annual dinner and dance of the North London Phaimaceutical Association in London on the proposition of the propositio January 14. In a reference to hospital pharmacy, Mr. Norman said that the hospital service should pay a little more for the pharmaceutical services. The manufacturing branch of pharmacy could have satisfaction at what had been achieved; its contribution to the export trade in the face of strong Continental and American opposition was no less than £30,000,000 per annum. Turning from statistics to the affairs of the Pharmaceutical Society, he suggested that it was a mistake to ne suggested that it was a mistake to set too high a standard in pharmaceutical education. The Ph.C. diploma was adequate for the pharmacists who wanted to "keep open shop." In Scandinavia, the ethical pharmacy was the rule, but the State had to subsidical theory beautiful general like in the dise it very heavily, especially in the smaller towns. It was time that the agenda of the non-social side of the British Pharmaceutical Conference was overhauled, he suggested. It tended to be ultra-scientific, and he recommended to the Conference executive that the conference executive that the cutive that the agenda should be broadened to include such subjects as dispensary layout, stock-keeping and even window dressing. Rep ying, Mr. T. HESELTINE (president of the Pharmaceutical Society) said that he found himself in substantial agreement with what Mr. Norman had said. Replying to "The Ladies and the Guests," proposed by Mr. G. B. Daniel, Dr. Harold Davis (chief pharmacist, Ministry of Health), who spoke in reply, said that the treasurer of the British Pharmaceutical Conference (Mr. H. Treves Brown, who was present at the dinner) and he (as chairman of the Conference) had taken note of what Mr. Norman had said that evening.
A recital by Miss Winifred Atwell,

pianist (and pharmacist), was followed by a cabaret show.

SOUTHAMPTON

Pharmacists' Work Appreciated

ALTHOUGH duties in the House of Commons prevented Dr. H. M. King (Member of Parliament for the Test Division of Southampton) from attending the annual dinner-dance of the Southampton Branch of the Pharmaceutical Society in Southampton on January 20, he sent his speech which the Mayor (Alderman Mrs. V. F. King) read for him.

Proposing the toast of the Pharmaceutical Society, Dr. King wrote: We embarked on a great national experiment, the Health Service, a tew years ago. This made mighty demands on all who serve the health of the community—and on no profession did it make greater demands than on yours. Doctors, nurses, surgeons, scientists and pharmacists have served the Health Service well. I have tried to express in the House some of the nation's appreciation of your own great work. The British Pharmacopœia changes rapidly in these years of swift medical advance. Probably the only thing that does not change is the bad writing of the doctor's prescription. Dispensing has multip.ied—in number and complexity. Congratulating the pharmacists on their skill and loyalty, Dr. King hoped they would continue to recruit young men and women of calibre.

Mr. E. A. BROCKLEHURST (vice-president of the Pharmaceutical Society) said that the Society had started 1954 with a new constitution of which Dr. King had been a sponsor, and which allowed it to cont.ol its own affairs without parliamentary supervision. He said that the Parliamentary Secretary to the Ministry of Health had recently paid tribute to the work of the Society and its strict control, the results of which were shown in the few complaints on pharmacy to come

before the Executive Councils.

MR. KENNETH F. YOUNG, proposing the toast of the visitors and friends, said that Dr. King had done much for pharmacists in Britain in asking for their remuneration to be increased.

Responding, THE MATOR congratulated all who worked for the Health Service in Southampton for their "harmonious and friendly co-operation." MR. ROWLAND THURSBY proposed a toast to the chairman of the Southampton branch (Mr. E. W. Jenkins). MR. Jenkins, replying, said that further centralising of dispensing would be a bad thing. He considered the drug bill was reasonable in comparison with the total cost of the Health Service.

DERBY

Social Club

There was an attendance of 300 at a dinner and dance of the Boots, Ltd., social club held in Derby recently. Among those present were Messrs. J. C. Shill (Derbyshire and Staffordshire teritorial general manager) and P. Eletcher (manager) of the company's R. Fletcher (manager of the company's St. Peter's Street, Derby, branch).



COMPANY NEWS

Previous year's figures in parentheses

S. A. SHEPHERD & CO., LTD.— Messrs. A. A. Williams and G. Wright have been appointed to the board.

ARTHUR BERTON, LTD.—Net profit for 1953 was £50,753 (£47,318) after tax of £72,500 (£68,000), etc. Dividend for year, 15 per cent. (same on smaller capital).

PLANT PROTECTION, LTD.—Mr. E. M. Fraser, C.B.E., has been appointed chairman in succession to Mr. T. Ainslie Robertson, who is to retire on March 31. Mr. Fraser will continue as sales controller of Imperial Chemical Industries, Ltd.

New Companies

P.C. = Private Company; R.O. = Registered Office

S. & D., LTD. (P.C.). — Capital £2,000 To carry on the business of agricultural, veterinary, manufacturing and retail chemists, druggists, etc. Directors: Malcolm R. MacLennan, Dorothea Y. O. Baptie, George P. Smith and Florence E. Smith. R.O.: 23 Lyons Crescent, Tonbridge, Kent.

JOSEPH ROWLEY, LTD. (P.C.).—Capital £5,000. To carry on the business of chemists' warehousemen and sundriesmen, manufacturing and dispensing chemists, etc. Subscribers: Glyndwr Richards and Joseph Rowley Joseph Rowley is the first director. R.O.: Bennett Avenue, Trading Estate, Bridgend.

BUSINESS CHANGES

W. H. JONES & CO. (LONDON), LTD., have removed to Fower House, 17 Oakleigh Park North, Whetstone, London, N.20 (telephone: Hillside 5006).

JOHN REED (D.C. CHEMISTS), LTD., is the new title adopted by the Durham County Chemists, Ltd., New Herrington, Houghton-le-Spring, co. Durham. The proprietor (Mr. John Reed) also trades as John Reed, M.P.S., at 234 Stanhope Road, South Shields, and 108 Laygate, South Shields.

Appointments

WELLINGBOROUGH INDUSTRIAL CO-OPERATIVE SOCIETY, LTD., have appointed Mr. F. L. Harvey, M.P.S., their pharmacy superintendent.

JAMES TOWNSEND & SONS, LTD., Little Queen Street, Exeter, have appointed Mr. A. T. Maine their representative in the Midlands from February 1 in place of Mr. G. D. Edwards who has been transferred to the Southwest of England.

OVERSEAS VISIT

MR. J. L. HINDLE, B.Sc. (managing director, Standard Synthetics, Ltd., essential oil distillers), left London by air on January 25 on a three-week business trip to the United States. In New York, Mr. Hindle will confer with Berje Chemical Products, Inc., who are the company's agents in the LS

PERSONALITIES

MR. JOSEPH DENTON, M.P.S., aged seventy-seven, of Skipton Road, Ilkley, Yorks, was blown over during a gale on January 15 and taken to Otley general hospital with a suspected fracture of the leg.

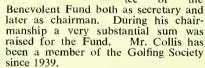
MR. J. S. CANNELL, M.Sc., A.R.I.C., Ph.C. (head of the analytical department, Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs), has been elected a member of the Society for Analytical Chemistry.

SIR ANDREW DAVIDSON is retiring from his post of chief medical officer of the Department of Health for Scotland on March 31. Sir Andrew has held the office since 1941 before which he was medical officer of health for the North Riding of Yorkshire.

MR. DAVID E. A. THOMSON, who was awarded the British Empire Medal in the New Year's Honours list, joined T. & H. Smith, Ltd., Edinburgh, in 1937. and became foreman of the company's engineering department. He is at present serving the company overseas.

MR. CON COLLIS, the new captain of the Irish Chemists' Golfing Society

(see p. 98) is a Dubliner runs his own pharmacy Phibsboro, Dublin, and has been dispenser to the Child-ren's Orthopædic hospital at for Cappagh several years. For many years he was associ-ated with the dance commitof tee the



MR, ERIC MALCOLM FRASER. who has been appointed chairman of Plant Protection, Ltd. (see first column), became assistant to the commercial director of Imperial Chemical Industries, Ltd., on its formation in 1926. After service as commercial director of the dyestuffs division and later of the Billingham division of the company, he became manager of the South-eastern sales division in 1934. In 1939, Mr. Fraser was appointed director of investigation and statistics at the War Office and subsequently became director-general of aircraft production. He received the C.B.E. for his wartime services. Mr. Fraser returned to Imperial Chemical Industries, Ltd., in 1945, and in October of that year he was appointed sales controller. Mr. Fraser is a member of the council of the Association of British Chemical Manufacturers and of the council and executive of the British Institute of Management. He has been a director of Plant Protection, Ltd., since 1946.

DEATHS

ALLSOP.—At his home, 28 Danecroft Road, Herne Hill, London, S.E.24, on January 24, Mr. Robert Stanley Allsop, aged seventy-six, Mr. Allsop was the senior representative of T. & H. Smith, Ltd. He joined the company in London as an office boy in 1891 and in 1902 was appointed cashier and office manager of the then newly opened branch in Glasgow, After eighteen years in Glasgow, Mr. Allsop returned to London and represented the company in the South. During the 1939-45 war he travelled the whole of England. As a result and because of his personality he became very well known to members of the trade. He is survived by a son and daughter.

GEDGE. — In a Malvern nursing home on January 10, Mr. Augustus Westly Gedge, M.P.S., 1 Hampton Road, Malvern Link, Worcs, aged eighty-six. After experience with Messrs. Ginnar in Cannes, Mr. Gedge returned to England to buy a business in Bristol. In 1897 he opened the Galen Pharmacy, Worcester Road, Malvern Link, He took an active part in social and educational work in the town, and for twelve years was a member of Malvern urban district council. He was chairman of Worcestershire Pharmaceutical Services Committee for twenty years prior to the start of the National Health Service, and was a former chairman of the Worcester and Hereford Branch of the Pharmaceutical Society. Mr. Gedge was joined in business by his son, Mr. C. E. Gedge; a limited company, A. W. Gedge & Son, Ltd., was formed in 1941

McINTOSH.—In hospital in Edinburgh, on January 26, Mr. William McIntosh, 7 Little Road, Liberton, Edinburgh, aged 60. Mr. McIntosh had been the sales manager in Scotland of Glaxo Laboratories, Ltd., since 1947. Born in Edinburgh and educated at George Heriot's School, Mr. McIntosh received commercial training in the office of a leading Scottish engineering company. In 1912 he joined Messrs. Glaxo in London and worked in their sales office until the outbreak of war in 1914 when he enlisted in the Lothians and Border Horse, transferring in France to the Machine Gun Corps and ultimately being commissioned in the Royal Field Artillery. He resumed his work for Messrs. Glaxo in Scotland in March 1919. Mr. McIntosh was a Fellow of the Incorporated Sales Managers' Association and was on the central council of that body. He had held the office of chairman of the Edinburgh 'branch of which he was a founder member. He is survived by his widow.

O'CALLAGHAN.—On January 22, Miss Kathleen Mary O'Callaghan, M.P.S., 385 High Road, Harrow Weald, Middlesex. Miss O'Callaghan qualified in 1933 and had been in business at the address given since 1934. The business is being continued under the management of a sister (Miss Eileen R. O'Callaghan, M.P.S.).

LEGAL REPORTS

Thefts from Employers. — Said to have told a detective-sergeant "I wanted to send money to my mother and to go to Germany to be near my boy friend," Ann Moore Peterson, Red Lion Hotel, Main Street, Haltwhistle, Northumberland, was carried scream-ing from the dock at Marlborough Street, London, magistrates' court, when she was sentenced to six months' imprisonment on January 25 for stealing from her employers. Peterson, a native of South Shields, who was arrested at Hexham, admitted stealing from the Marble Arch and Bucking-ham Palace Road branches of Heppells, Ltd., chemists, where she was formerly employed, three electric razors, a camera and a quantity of cosmetics to a total value of £43. The thefts were discovered when a young man who had come into possession of one of the razors took it back to the Marble Arch shop for repair.

Uncustomed Cameras. — At Bow Street, London, magistrates' court, on January 17, H. C. Engert & Co., Ltd., photographic dealers, Strand, W.C.2, photographic dealers, Strand, W.C.2, were fined a total of £1,900 and ordered to pay £100 costs on four charges involving the sale of eight cameras. Summonses against Frank Ernest Ockham (a director and the manager of the company) and Leonard Moseley (a director and the manager of a branch) alleging that they were knowingly concerned in dealing with uncustomed goods, were withdrawn. For the prosecution it was stated that the cameras concerned (mostly German) were for the most part new or nearly new. They were scarce and almost impossible to obtain except for scientific purposes. The prosecution's case was that the company knew the cameras were uncustomed, "or else they bought them having good reason to believe they were uncustomed."
They had been obtained from persons having a temporary address in this country. From a German who visited this country between February 21 and 26 the company bought Leica cameras for £210, after having been told that the duty had been paid. The lens from the first of the cameras was sold for The cameras, with another lens (for which £22 was paid), were sold for £145 whereas, with the original lens, the selling price would have been In another case the company bought a camera purchased in Dublin for £75 and sold it for £175. Treble duty, for which the company was liable, would amount to more than £3,000. The defence represented that Engert's was a perfectly respectable company that had been carrying on business since 1939. The magistrate said he was prepared to accept that, in the main part of its dealings, the company was honest. The important factor was that, if the transactions had gone through without investigation, there would have been loss to the Treasury and Revenue. A certain measure of responsibility was placed on companies. "When they, with their eyes open, try to make a profit, and by so doing defraud the Revenue, the matter is serious.'

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

WHEN the House of Commons re-MINISTER OF HOUSING AND LOCAL GOVERNMENT (Mr. Harold Macmillan) told Lieutenant-Colonel M. Lipton and Sir H. Williams that he hoped to receive very soon the interim report of the committee on synthetic detergents.

Safeguards Against N.H.S. Frauds

MRS. E. WHITE asked the Minister of Health on January 21 if, in view of the statement by the president of the General Medical Council (C. & D., 1953. II. 529), he was satisfied that there were adequate safeguards against fraud in the National Health Service.

MR. IAIN MACLEOD said he had no reason to think that there was any serious inadequacy.

Cancer Research and Treatment

Mr. N. N. Dodds asked the Minister of Health on January 21 what action was being taken to combat cancer; what progress had been made; and

what further action was contemplated.

MR. IAIN MACLEOD: Research into causes and treatment forms a substantial part of the programme of the Medical Research Council, in co-operation with the universities, the British Empire Cancer Campaign and the Imperial Cancer Research Fund. New methods, including radioactive isotopes and super-voltage machines, have been introduced and are being extended, and local authorities are encouraged to undertake educational campaigns.

Apart from cancer of the lung, and of a small number of other sites, the death rate for cancer had not increased, if allowance were made for the increase in age structure of the popula-

MR. P. J. NOEL-BAKER asked if the Medical Research Council was in touch with work in Holland.

MR. MACLEOD answered that information on cancer research was freely exchanged internationally at all times.

Diphtheria Immunisation

MR. P. REMNANT was told by the Parliamentary Secretary to the Minister of Health on January 21, that approximately 50 per cent. of children under five years of age had been immunised against diphtheria.

Calomel in Teething Powders

THE HOME SECRETARY (Sir David Maxwell Fyfe) told Mr. S. T. Swingler in a written reply on January 21, that he had no power to prohibit the use of calomel in the manufacture of teething powders, but he understood that the only firm known to have been manufacturing such powders wholesale in recent times had decided to use a different ingredient.

Experiments on Living Animals

Mr. Peter Freeman asked the Home Secretary on January 21, how many experiments on living animals had been conducted under the Cruelty to Animals Act, 1876, in connection with cancer to the latest known date; what results had been obtained as to the cause or cure of this disease; how many applications for a licence were refused in each category in each year to conduct an experiment on a living animal since the Act was passed in 1876; and what were the reasons for the refusal in each case.

SIR D. MAXWELL FYFE in a written reply said that from 1907, when the figures were first kept separately, to the end of 1952, 1,367,820 experiments had been carried out in connection with cancer research. "It is not within my province to assess the results of such experiments." Information on licence refusals was not available.

Guillebaud Report

In a written reply to Mr. Hugh Fra-ser on January 22, Mr. IAIN MACLEOD said it was too early to forecast when the Guillebaud Committee (see C. & D., 1953.I.353) would be ready to report.

Food and Drugs Bill

In the House of Lords on January 20, during the committee stage of the Food and Drugs Amendment Bill, LORD MILNER said concern had been aroused by the terms of a subsection which read:-

No person shall add any substance to or abstract any constituent from a drug so as to affect injuriously the quality, constitution or potency of the drug, with intent that the drug shall be sold in that state.

The first question was whether what was known as unofficial compound medicine was covered by the word "drug." By an "unofficial compound" was meant a compound medicine, the formula for which was not prescribed by the British Pharmacopæa or similar standard works. If the answer to that question was "Yes," as he imagined would most certainly be the case, then a difficulty might arise if manufacturers of such compound medicines decided, in the light of ex compound pert advice or modern medical research, to change the formula by reducing the proportion of one active ingredient. The result of that change gredient. The result of that change would be to improve the quality and the constitution of the compound, but because the quantity of an active ingredient had been reduced it might be argued on a narrow interpretation that its potency or strength had been injuriously affected. At all times, of course, in accordance with the Pharmacy and Medicines Act, 1941, the manufacturer would show the correct formula on the package, and if a change were made in that formula, then of course the declaration would similarly be changed. "I have had some correspondence with Lord Woolton," continued Lord Milner; "he was good enough to write to tell me that in his opinion and that of his advisers no charge could be made against a manufacturer of an unofficial compound in those circumstances. For the purposes of the record I should be grateful if he would be good enough to reassure me on that point."

LORD WOOLTON: The assurance that

I gave in writing I will give verbally.

PACKAGING NOTES

Tacky Labels.—For labelling leather, wood, metal or plastic articles or containers, which usually present some



difficulty, Samuel Jones & Co., Ltd., New Bridge Street, London, E.C.4, offer plain tacky labels, size $\frac{7}{8}$ x $\frac{5}{8}$ in., packed as illustrated. The labels "stick without damping and peel without fuss." They are claimed equally satisfactory in hot or cold, humid or dry atmospheres. The envelope contains 120 labels.

Plastics in the Tropics.—A report recently published gives the results of tests on the behaviour of polythene under tropical conditions made at the instance of a panel set up jointly by the Ministry of Supply and British Plastics Federation—a sub-panel of the Inter-services Plastics panel. The report shows that the inclusion of 0.1 per cent. of carbon black in polythene provides a considerable measure of protection against deterioration of properties through light. Polythene is found to be resistant to the moisture of tropical climate as represented mainly by the jungle exposure sites, but is susceptible to the actinic effects of the tropical sun, preponderant on the beach and desert exposure sites. These effects are greatly reduced by carbon black, which is specifically recommended for that purpose by the makers of polythene. Continued sun exposure caused an increase of "brittleness" (loss of flexibility and

extensibility). The report concludes that it would be necessary either to be satisfied with a limited service life in direct sunlight or to provide additional protection for the material. There was no indication in the tests that fungal growths had attacked the polythene itself. Tropical conditions caused a general progressive shrinkage in both directions at all sites (greatest at the semi-desert site, least in jungle undergrowth). Almost all specimens showed a progressive loss in weight. The report, entitled "Reports on Plastics in the Tropics, 2. Polythene," is published by H.M. Stationery Office, price 2s. net.

Unit Packs.—The package for Raymond 77 cream shampoo, here shown, is made for the manufacturers, ART-RAYMOND, LTD., 18 Grafton Street, Mayfair, London, W.1, by Ivers-Lee (Great Britain), Ltd., 113 Farnham Road, Slough, Bucks, using Translam, a heat-sealable, transparent film laminate particularly suitable for the unit-packaging of greasy, aromatic



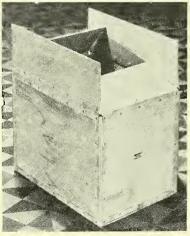
toilet preparations. The two-colour photogravure print is sandwiched between the plies of film and thus cannot be defaced. Tones of cerise and pink are employed and a three-colour effect is obtained by leaving some of the lettering transparent and allowing the silvery cream to show through.—In a rather different field, Messrs. Ivers-Lee have co-operated with BRISTOL-MYERS, LTD., London, in the production of "sample 2's" and "sample and sales 4's" of Bufferin analgesic, using prin-

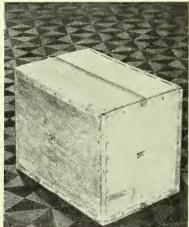
ted laminated foil supplied by Brown, Bibby & Gregory, Ltd., London. The entire packaging of the product, with the exception of the Bufferin thirty-six in bottle, whether for sale or for sampling, is in Sealtite,

Economy-model Folding Container. —A new addition to the range of collapsible and folding containers manufactured by Granby Metal Products, Ltd., 359 Canal Road, Bradford, Yorks, is the simply operated folding box shown below, It is offered at one-third the cost of the previous precision types of Granby container. It follows the design of a normal card. follows the design of a normal card-board-fibre carton, the base and the top being identical and closed by the means of four flaps. But it stands considerable weights placed upon it without fear of bowing (and damage to contents). It lasts for four to five to contents). It lasts for four to five as many journeys as a fibreboard carton. The Plysteel cartons are in effect firm, rigid boxes. The panels and flaps have special thin-gauge zinc-plated steel strip riveted to their edges, the strip itself acting as a hinge, and allowing the box to be folded like a fibre carton, while adding to the strength. The base and upper inner flaps wedge into the opening and add to the rigidity. Fastening is by add to the rigidity. Fastening is by staples, steel, or wire-tensional strapping, leather straps, togge clips, or a specially designed new-type fastener which acts as a seal as well as a fastener (a fitting on the inner flap and hole in the outer, fastened by pushing in a rivet with the thumb). The fixture is designed so that the rivet cannot be pulled out unless exceptional force or manipulation is applied. To open the box, the head of the rivet is cut off with a pair of normal end- or side-cutters and the shank of the rivet pushed or pulled out from inside when the box is open. The containers are heavier than fibre cartons, so is the price, but the cartons are claimed to last for a minimum of twenty journeys and have an expected life, under normal conditions, of over forty journeys. The special steel strip bends at least 100 times before breaking, and tests have shown a life of 280 bends.

RE-USABLE PLYWOOD CONTAINER: The Granby Plysteel collapsible plywood container, shown here (1) folded flat for return transit; (2) erected for inse tion of contents; and (3) complete has two equal flaps. If desired, one full flap, with one narrow flap beneath, can be substituted in the design. The plywood panels may be of any thickness from 3 mm. to 8 mm. Dimensions are to customers' requirements up to a maximum of 30 in. in the longest side. When erected the cartons have the rigidity and strength of solid boxes made from equivalent materials.







TRADE NOTES

Bonus Offers.—The bonus offer by Cupat, Ltd., Blackburn (C. & D., January 23, p. 80) relates to Secto DDT insecticides and not to other Cupal preparations.

Squeeze-bottle Atomiser.—Fibrenyle, Ltd., 157 Dukes Road, Western Avenue, London, W.3, announce that their Skylon polythene squeeze-bottle atomiser is now available in natural, pink, blue and green pastel shades.

Available to Doctors.—Supplies of Erythrocin (erythromycin, Abbott) are now generally available to the medical profession from the makers, Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Middlesex. The pack is a bott.e of twenty-five 0·1-gm, tablets.

Repackaged.—Evan Williams Co., Ltd., Aintree Road, Perivale, Middlesex, are now presenting their liquid lanolin shampoo in a stylishly designed bottle in carton. An introductory offer allows thirteen cartons per doz. ordered, and the product is being nationally advertised.

Available to Sanatoria.—Viocin, the brand of viomycin sulphate manufactured by Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, is now available through the regional distribution centies of the Ministry of Health to T.B. hospitals and sanatoria for the treatment of selected cases of tuberculosis.

Sugar-based Throat Lozenges.—William R. Warner & Co., Ltd., Power Road, London, W.4, announce that their Tyrosolven antibiotic-anæsthetic throat lozenges are now made with a sugar base. Tyrosolven lozenges should be kept under the tongue as long as possible.

Delays Overtaken.—Arcfield Optical Manufacturing Co., Ltd., 53 Totenham Court Road, London, W.1, manufacturers of Greba spring-action tweezers, have increased production and are now executing orders promptly. Messrs. Arcfield apologise for past delays occasioned by demand so far exceeding production.

Again Available. — Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2, announce that, in response to requests from hospitals, Avertin (tribromoethanol) has again been made avauab c for use as a basal anæsthetic and to control convulsions in eclampsia. Avertin is packed in bottles of 100 mils (with one 10-mil congo red). Messis, Bayer announce that Betaxan compound is again in full supply.

When Strength is not Specified.—Riker Laboratories, Ltd., 29 Kirkewhite Street, Nottingham, point out, from reports of their representatives, that 1-mgm. tablets of Veriloid are sometimes dispensed against prescriptions not specifying a particular strength, whereas the doctor, without stating so, may have intended that 2-mgm. tablets should be taken. In future the 2-mgm. tablets are being sent out by the company when no strength is specified on the order.

An Intermediate Size.—Westminster Laboratories, Ltd., Chalcot Road, London, N.W.1, are issuing a 6-oz. bottle

of Senokot granules to meet requests for a size intermediate between the 2-oz. tin and the 2-lb. tax-free dispensing pack. The new edition of Professor Gaddum's "Pharmacology" contains the following reference to the product. "The pleasantest and most reliable form of senna is a biologically standardised extract made up with chocolate (Senokot)."

Pre-Budget offers.—Like other manufacturers in the Beecham Group, COUNTY PERFUMERY CO., LTD., Honeypot Lane, Stanmore, Middlesex, are allowing, on any goods invoiced by the company between March 1 and Budget day, a credit of 50 per cent. of any re-

duction in purchase tax, irrespective of whether all or only part of the consignment has been sold before Budget day. On goods invoiced between February 1 and 28, inclusive, a credit of 25 per cent. is being similarly allowed. The credits, if payable, will be given automatically (without the need for the dealer to apply).—Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1, announce that, from February 1 to March 31, they are supplying 4711 products on best terms on orders of any size, provided a minimum value of £1 at wholesale prices is reached. In the event of an earlier announcement being made regarding purchase-tax rates, the concession is automatically withdrawn.

NEW PRODUCTS AND PACKS

A New Oral Antibiotic.—Eli Lilly & Co., Ltd., Basingstoke, Hants, announce that Ilotycin brand erythromycin will be generally available for prescribing from February 1. Ilotycin is a new oral antibiotic discovered by Messrs. Lilly and shown to be specially effective against staphylococci, streptococci and pneumococci, even when resistant to other antibiotics. Ilotycin is available in bottles of twenty-four specially coated tablets, each containing 100 mgm. Supplies are available from usual distributors.

New Medicinal Specialities. Mcdo Chemicals, Ltd., 178 Pentonville Road, London, N.1, have put on the market three new preparations. Coryzomed tablets are claimed to allay the symptoms and shorten the duration of the common cold and influenza, Each tablet contains codeine phosphate, g.; 4; papaverine hydrochloride, gr. $\frac{1}{4}$; and phenolphthalein, gr. \(\frac{1}{4}\). Coryzomed is issued in packs of twentyfive, 100 and 250 tablets. Hypertensan tablets contain standardised Rauwo fia serpentina root, 50 mgm. It also is issued in twenty-five- 100- and 250tablet packs. Elixir Insomnol contains methylpentynol 0.5 gm. in each 14 mils. It is advanced as a non-toxic preparation for insomnia. The packs are bottles containing 168 mils or one litre.

Chlorpromaziue. — Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, announce the introduction of Largactil brand chlorpromazine hydrochloride. The product is undergoing clinical study in anæsthesia, psychiatry, and general medicine. Largactil is being made generally available to the medical profession from February 1. It is presented for oral administration in containers of fifty and 500 25-mgm. sugar-coated tablets, and for parenteral administration as a 2·5 per cent. solution in boxes of ten and fifty 2-c.c. ampoules (25 mgm. in each c.c.) and as an 0·5 per cent. solution for injection in boxes of ten 5-c.c. ampoules (5 mgm. in each c.c.). Largactil comes within Part I of the Poisons List and Schedules I and IV of the Poisons Rules.

Prolonged-action Penicillin.—Benapen, an aqueous suspension of benethamine penicillin (a penicillin salt developed by the research workers of Glaxo

Laboratories, Ltd., Greenford, Middlesex) has the special characteristic of prolonged action with therapeutic penicillin blood levels. Its solubility is somewhat lower than that of procaine penicillin, and it has therefore a more prolonged depôt effect after intra-muscular injection. From a single 1-c.c. injection effective serum levels of penicillin may be maintained for three days or more. Even at the end of the third day after injection, the level of penicillin in the blood has been shown to be above 0.03 units. Benapen is indicated where infections are highly sensitive, not immediately serious, and in an area likely to be readily accessible to penicillin in the circulation (for example in bacterial pneumonia, scarlet fever, tonsillitis and pharyngitis, otitis media, erysipelas and impetigo, cellulitis, syphilis, gonorrhea and yaws, prophylaxis against recurrence rheumatic fever and against infection from accident or surgery). In severe and overwhelming infections, or when less sensitive organisms are to be dealt with, the more rapid and vigorous effect of crystalline sodium penicillin G is needed. Benapen suspension (300,000 units benethamine penicillin per c.c.) is issued in a silicone-treated vial providing ten 1-c.c. doses,

Redesigned. — From mid-February Coleman & Co., Ltd., Norwich, are

issuing their Vitacup chocolate - flavoured food beverage in a new (6-oz.) size, at a new price, and in a tin of new design, as illus-trated. Vitacup is claimed to be more soluble and lighter in granule than o'her comparab'e products. enabling as



many cups to be obtained from the tin as would be obtained from competitive products retailing at 25 per cent. more. Heavy national advertising is planned, and crowners and price tickets are enclosed with the pack to provide a link with the Press advertisements.

Drug Bill Still Too High

UNDER-SECRETARY'S VIEW AT LIVERPOOL

ELIMINATION of unnecessary costs in the health service in order to provide for new developments was the plea by DAME E. M. RUSSELL-SMITH (undersecretary, Ministry of Health) in an address to Liverpool Chemists' Association on January 14. Dame Russell-Smith said that it was a matter of concern that so much money was going into medicine prescribed by the general practitioner, apart from medi-cine supplied by hospitals and that bought by patients themselves. The bought by patients themselves. Ministry wanted to save in some directions and expand in others. They still believed the drug bill was too high. The root problem was to get more and better information to the doctors regarding the cost and pharmaceutical garding the cost and pharmaceutical value of new products. There had been remarkable discoveries in the pharmaceutical field and manufacturers were showing initiative and enterprise in bringing them to the notice of the doctor. At the same time the doctor had less incentive to consider the cost. Before the National Health Service, the doctor had his private patients' pockets to consider, and the hospitals were short of funds. A new method of disseminating in-A new method of disseminating information to the doctors must be found. Dame Russell-Smith went on to refer to the list circulated to doctors comparing the prices of many commonly prescribed proprietaries with those of equivalent official preparations and suggesting that they should prescribe the cheaper of the two. The list had revealed strange discrepancies, due to dispensing fees. The position should be rationalised.

Rising Averages

There had been a marked difference in the average price per prescription. In August-September 1953 the average was 1½d, below 1952 level, 2d, below in October and slightly more in November. That suggested that the list had encouraged doctors to consider the financial aspects. Dame Russell-Smith said that the measures taken by the Ministry were not intended to harm the chemists but to eliminate unnecessary costs and so make room for Doctors often developments. suggested that the easiest way to check unnecessary cost was to give the chemist the right to substitute a standard equivalent, but Dame Russell-Smith thought that when the doctor prescribed what he considered necessary for the patient, the chemist should not be authorised to alter the prescription. In general it was a pleasure to go into the chemist's shop, but the speaker had been in shops which were untidy and not too clean. In such cases she wondered what the dispensary like. There were new preparations needing more careful storage and checking for expiry dates than the old ones did, and that could not be done efficiently if the dispensary was muddled. Pricing arrears on average had been reduced from nine months in 1952 to three and a half months at the end of 1953. Another thing that might be done during the year was overhaul dispensing fees to get them a little more rationalised in the light of current practice. Dame Russell-Smith invited chemists to submit

material for *Prescribers' Notes*.

The Chairman (Mr. J. Farrer Barnes) said that in the history of pharmacy, he did not think pharma-

cists had a greater sense of duty than they had today. He hoped that in future there would be greater liaison between doctors and pharmacists. Mr. J. P. Murphy suggested that preparations included in official publications, plus an approved list of proprietaries, might be made available for prescribing free of the one shilling charge.

DAME RUSSELL-SMITH replied that

to adopt the suggestion would be to limit the list of drugs available. Ministers were trying to preserve the free-dom to prescribe and not to impose rigid limits on the practitioner's dis-

CLASSIFYING PROPRIETARIES Dr. Davis Sketches in the Background

H. DAVIS (chief pharmacist, Ministry Health), addressing of meeting of the East Kent Branch of the Pharmaceutical Society in Canter-bury, on January 12, on "The Report of the Joint Committee on Prescribing" stressed the fact that the committee consisted of medical and pharmaceutical experts only and that no technical officer of the Ministry of Health was a member. The Department supplied the secretariat and information on products requiring classi-

The committee's second interim report in 1950 declared that there should be no absolute restriction on the prescribing by a general practitioner of any drug which in his opinion was necessary for the treatment of his patients.

The committee decided to classify ethical proprietaries into six categories. Categories 1, 5 and 6 were of immediate topical interest in view of the recently published list of preparations in those groups (see C. & D., 1953. II, 73, and this issue, p. 97). The total number of publicly advertised preparations was about 600, whereas the committee had already classified upwards of 5,000 ethical proprictaries and the number was steadily increasing. That ate topical interest in view of the reoverproduction of new remedies, many of which represented no significant therapeutic advance, embarrassed doctor and pharmacist alike. The pharmacist was finding considerable overlapping of stocks of many drugs, some of which differed only in brand name It was a position imposand price. sible logically to defend.

Preparations in category 1, described as new drugs of proved value not yet standard, were the most important but comprised the smallest number. Those drugs should be freely prescribable. They or their chief ingredients might be considered as candidates for pharmacopæial recognition. Category 5 consisted of drugs "which in the committee's view have not been proved of therapeutic value.' definition was often taken to mean preparations of no therapeutic value, but that interpretation was incorrect. Preparations in the group might still be in the trial stages and what was really meant was that there was insufficient evidence to justify the thera-peutic claims made for the product.

Category 6 comprised combinations of drugs in category 5 with standard

drugs. That, too, did not indicate that such drugs had no therapeutic value. but that the claims made for the product by the inclusion of a category 5 drug were not supported by the evidence submitted. Doctors had been asked to consider drugs in categories 5 and 6 as not freely prescribable.

The bulk of the products examined fell into categories 2, 3 and 4 but, as the committee recommended that those should be freely prescribable subject to satisfactory price negotiations be-tween the Health Departments and the manufac urers, the lists had not yet been published. It would be wrong to publish any part of those lists until prices for all drugs in those categories had been agreed.

A Stock-keeping Responsibility

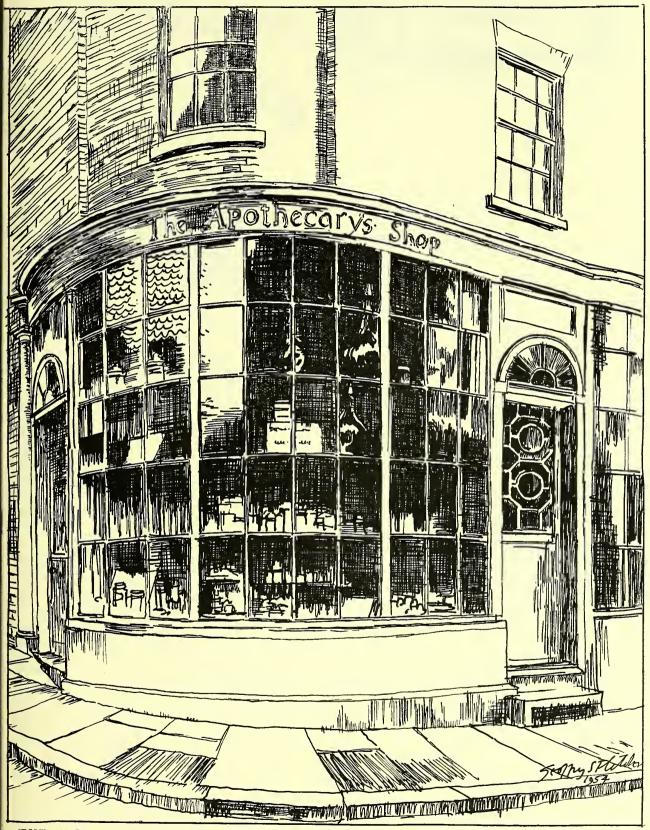
Dr. Davis drew attention to the recent report of the Birmingham city analyst on the dispensing of oral tab-lets of penicillin (see C. & D., 1953, II. 605). The profession could not be proud of the way in which some of the tablets had been dispensed. Suitably stored under reasonable conditions, those oral tablets retained their potency for at least twelve months. It was the pharmacist's duty to decide the most the most efficient force of order. upon the most efficient form of ordering and maintaining stocks of such substances and not to be influenced by the greater profit made on larger packs. It was unfortunate that the tests were made on tablets containing 100,000 units, as those were now rarely prescribed.

In the discussion that followed the speaker was asked why, in view of the infrequency with which extem-poraneously prepared pills were now prescribed, they still figured largely in the examinations. The answer was the examinations. The answer was that they did not figure as largely to-day in the examination, but that they were occasionally prescribed, and a pharmacist must be equipped to dis-

pense them.

Whether the Ministry would sanction the substitution of proprietaries was a question that Dr. Davis thought should first be discussed by the medical and pharmaceutical professions. There were possibilities of mistakes and abuses in applying a sweeping permission for substitution. Asked "What are the Ministry's views on a preparation put into category 5 being advertised direct to the public?" Dr. Davis said that the Ministry had no comment to make.

PHARMACIES OF BRITAIN—20



THE APOTHECARY'S SHOP AT RYE, SUSSEX

This month's drawing by Geoffrey S. Fletcher shows a corner of the old apothecary's shop in Rye, Sussex. A further bow window adjoins the door on the right of the drawing.



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An Exceptional Pricing Concession

A REDUCTION at January 1 in the price of butazolidin ablets took place in unusual circumstances that have eceived special treatment by the Ministry of Health. Because of incorrect information as to the basis on which National Health Service prices are fixed, the makers were under the impression that chemists would automatically be paid the pre-January 1 price for stock neld at December 31, 1953, and which they subsequently supplied on EC10 forms. That is not the case. Price reductions that occur on or before the eighth lay of the month operate for N.H.S. payment purposes from the first day of that month; price reductions that occur from the ninth of the month onwards operate or N.H.S. payment purposes from the first day of the ollowing month.

By reason of the erroneous information given to the nakers of butazolidin (though not by the National Pharmaceutical Union or Ministry), the department has agreed "as an exceptional measure" that, where butazolidin tablets are supplied—during 1954 only—from tock purchased before January 1, 1954, and the conractor endorses the prescription to that effect, and with he higher price claimed, the higher price will be illowed.

Drug Costs in Proper Perspective

DFTEN it is of value to have from authoritative sources re-statement of basic facts and principles that may be "common knowledge" or readily derived from the egulations but are none the worse for being publicly proclaimed. From that point of view the statement nade by the chief pharmacist of the Ministry of Health, Speaking at Canterbury on January 12 (p. 106) hat "it is wrong to say that a prescriber is not allowed o prescribe a drug which is advertised to the public," s welcome.

The right to do so is safeguarded to him, a right reffirmed recently (see C. & D., January 16, p. 59) to
he British Medical Association when it specifically
out the question to the Ministry of Health. The presriber who orders the advertised product must
be ready, of course, to defend his prescription if chalenged to do so, but the defence is to his medical
olleagues members of the Local Medical Committee
of the Executive Council and not to the Ministry
of Health. In other words, "patient-pressure," which it
vas designed to counteract, is not to be replaced by
Ministry-pressure," except very indirectly. The figure

given of 600 publicly advertised preparations, against 5,000 "ethical" proprietaries (with the number steadily advancing each month) is illuminating. It seems to indicate that, even if the prescribing of advertised proprietaries were to be completely prohibited, instead of requiring to be justified, the effect on National Health Service costs would be comparatively unimportant. That is irrespective of the argument, which is being pushed much too far—as in "Chapman Pincher's science diary' in the London Daily Express on January 26, where the diarist declares "Now it has been found that half the drugs named [in the report on costs of National Formulary and proprietary preparations (C. & D., 1953. II. 361)] are substantially dearer when chemists dispense them." Such a statement deviates sadly from the scientific accuracy one has a right to demand of a "science diarist." "Substantially dearer" can, on any reasonable computation of "substantial," apply to only a small minority of the 50 per cent. The rest are fractionally higher (and that when calculated on the particular basis selected). The point, however, does not arise directly from Dr. Davis's address.

What he did significantly say was that the considerable overlapping of stocks of many drugs, "some of which differed only in brand name and price," was "a position impossible logically to defend." That truth is not new, but its re-statement in that form by that speaker appears to hold out a hint of actual attack. Presumably part of the attack is through the machinery of making "satisfactory arrangements as to price," and Dr. Davis had something to say about that. The problem is delicate and many-sided, involving considerations of export and the continued existence of manufacturers' research departments, and the indications that the Ministry is conscious of its heavy responsibility is reassuring. "It would be obviously wrong," said Dr. Davis, "to publish, say, a small part of this list [of products in the Cohen committee's categories 2, 3 and 4] consisting of those for which prices have been agreed." Unfortunately it is also true that it may be damaging to keep manufacturers and the community too long in suspense.

It is to be hoped that the making of satisfactory arrangements as to price is proceeding anace and that publication of at least a substantial majority of the accepted products may be expected soon.

Overseas Trading in 1953

WITH the publication of December trade figures it is possible to compare the nation's trade in the years 1953 and 1952. The results (p. 116) can give but meagre satisfaction to British exporters of medicinal products. The figures for goods in that category fell by nearly £1 million from the level of 1952 (in which total United Kingdom exports declined by 20 per cent. during the summer months), yet imports of medicines rose by more than £1 million. Many commodities, of course, dropped in value (for instance, penicillin), but so also did the costs of imported goods. More penicillin was actually shipped overseas in 1953 than in 1952, but the increase failed to make up for the lower prices. Sulphonamide exports were smaller not only in value but in volume also. Where gains have been made they are mostly disappointing in size, especially considering the export achievements of West Germany and Switzerland in the same period. It has also to be recognised that many of the exports under discussion went to markets that have been shielded from American competition through lack of dollars. Such protection cannot last for ever, and it is now apparent that South Africa, for one, is to throw its doors open to United States exporters.

In December 1953 total United Kingdom exports amounted to £224.6 millions, against £239.9 millions in the previous month. Imports in December amounted to £281.6 millions, and re-exports to £7.6 millions. The excess of imports (valued c.i.f.) over exports and re-exports (f.o.b.) was therefore £49.4 millions.

Drugs, medicines and medicinal preparations, at £2,774,127, were at the highest recorded figure since May 1953, and proprietary medicines, at £661,604, at their highest for more than two years. The latter result appears to have been achieved by a general increase to most countries rather than by large shipments to any one market. The value of penicillin salts exported was, at £145,240, similar to the November figure, but injections slumped from £151,010 to £69,314, and other penicillin preparations from £64,628 to £42,901. Increased values over those in November were shown by aspirin, at £53,313; quinine, at £13,450; insulin, at £49,310; and ointments and liniments, at £95,738. Lower were sulphonamides, at £223,296; antipaludics, at £20,975; and antibiotics other than penicillin, at £297,577. Perfumery and toilet preparations exported during December were valued at £579,118, of which cosmetics (lipsticks, face powders, etc.) accounted for £177.263, and dentifrices for £140,792. Toilet soaps, at £205,465, were lower than in the previous month, but were nevertheless up to the monthly average for 1953. Essential oils, at £59,147, and perfumed spirits, at £60,353, were somewhat above the average.

On the import side, essential oils continued to rise and, at £490,579, was the highest for the year. The value of medicines and medicinal preparations (£603,148) was also high, whilst menthol dropped to £9,923.

Barriers to Trade with the U.S.A.

THE much publicised report of the Randolph commission on United States foreign economic policy (see p. 117), has been received with mixed feelings by the rest of the world. Those who thought that a freer trade policy based on "Trade not aid" was on the way must have been especially disappointed.

From the British exporter's point of view the only concession (if that be the right word) of consequence that the commission makes is that the Trade Agreements Act be extended for another three years at least. As that Act no longer leaves much scope for further tariff reductions, the President is to be given power to reduce any rate by 5 per cent. for three years. Strong opposition to any such action, however, was voiced by three members of the commission.

Recommendations on the simplification of the American tariff system go no further than do previous reports, yet perhaps some consolation may be gathered from the fact that the *status quo* is maintained and not worsened by a Party whose policy has long been strongly protectionist in outlook. Whether the appropriate legislation approving the majority report will be passed remains to be seen. If it is, then the result should be a step, however small, in the right direction.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

ADVANTAGE TO THE GROCER

SIR,—Following the recent announcement of the formation of a company in the Unilever group for the sale of chemist lines to grocers, I have discovered quite by accident that a similar company is functioning in the Beecham group. The company, Harold F. Ritchie, Ltd., offers Macleans, Beechams, Bristow, Amami and Silvikrin lines, with the added advantage of combining all in one parcel—an advantage the chemist has never had. I do not propose to say any more than has already been said on the subject. Action is required, and I, for one, shall wherever possible divert sales from those lines. I do not see any point in refusing to stock them since to do so means sending the customer to the grocer. But henceforth diverted sales and no publicity constitute my protest against the treatment of the chemist, who has contributed so much to the growth of those companies.

HAPPY MEMORIES

SIR,—The reminiscences of my dear old friend, J. H. Gough (C. & D., January 23, p. 88) brought happy memories of my working career in Leeds, for it was from the Leeds School of Medicine that I qualified as a pharmacist during the period he had control of the evening classes for pharmaceutical students. My first visit to York Place, Edinburgh, was successful, and that was due to the invaluable tuition given by Mr. Gough and his colleagues. To the list of teachers there should be added Mr. R. Gawlor and the late John Lancaster (then pharmacist at the Leeds Public Dispensary). The mention of Mr. Walker as botany teacher reminds me what a Yorkshire "character" he was. During summer months he took his pupils on Saturday afternoons and late evenings for field rambles around the moors betwixt Leeds, Bradford and Ilkley, and always arranged for refreshments before we returned home. Woe betide any waitress who brought him a cracked cup, for he promptly smashed it in pieces (though he then proffered payment for a replacement).

proffered payment for a replacement).

After I left Leeds for Scarborough in 1917, I felt under such a debt of obligation to Mr. Gough and his colleagues that the least I could do was to commence similar classes for Scarborough apprentices, and those were carried on successfully for sixteen years. Mr. Gough commenced his career some fourteen years before mine, but his experiences as an apprentice and unqualified assistant were very similar, and typical of good-class Victorian pharmacies. Such times will never return. We worked long hours but they were times of real pharmacy, not merely passing time by counting out proprietary tablets from bulk containers.

SCARBOROUGH

H. M. HIRST

Onward from Galen

An element of the sea is said to be in the blood of most Englishmen, and presumably, therefore, of most English pharmacists. That registered members of the Pharmaceutical Society should figure on opposite sides of a transaction in inland waterways must nevertheless be regarded as purely coincidental. The transaction referred to involves a change of control of the Ullswater Navigation & Transit Co., which operates a summer-season service of steamers on Lake Ullswater. Previously more than 50 per cent. of the sharcs were held by Mr. C. J. Dixon, F.P.S., Pooley Bridge, and his sister. Mr. Dixon has disposed of his interests and retired from the board of directors, of which he was chairman. The new chairman is Sir Wavell Wakefield, M.P., M.P.S., the one-time Rugby international, present member for the St. Marylebone division, and director of a number of companies. Sir Wavell served his pharmaceutical apprenticeship in London with Boots, Ltd. Under the change the "Lady of the Lake" continues in the charge of a pharmaceutical guardian and the time when the "Raven" must say "Never more" is not yet.



HYPODERMIC syringes with interchangeable plungers were long dismissed in the trade as an impractical proposition. The consignments of interchangeable syringes dispatched from the Malvern factory of Chance Bros., Ltd., to their sole distributors, Surgical Equipment Supplies, Ltd., London, effectively disprove that belief.

For many years Messrs. Chance have supplied, and continue to supply, Veridia precision-bore tubing to manufacturers of hypodermic syringes and of general scientific glassware: tubing with a virtually true internal bore, accurate to within $\pm 1/100$ mm, Tubing made by a refinement of that process provides fundamental raw material for the interchangeable syringes.

Foresight

In the United States the Luer all-glass syringe is the instrument of choice, and American influence during the 1939-45 war introduced it to British users, who until then had shown a decided preference for the Record-type syringe (a glass barrel with metal mounts top and bottom and usually a metal plunger). Messrs, Chance foresaw that after the war the demand for all-glass syringes was likely to grow. They had noted the slowly developing technique

of mass sterilisation of syringes in hospitals and the difficulty of having to pair plungers and barrels during the washing prior to sterilisation, and decided that an interchangeable syringe was called for. Not interested in becoming just one more manufacturer of conventional hypodermic syringes, the company set its research department to overcome the formidable obstacles that stood in the way of economic production of their ideal type. They further decided that the syringe should have a clear glass barrel that is, that there should be no grinding of the glass of which it was made. Apart from making clearly visible the contents of the syringe, that feature would help to diminish wear—an important requirement if the interchangeability were not to be impaired with use. The fire-finished working surface of the Chance syringe barrel does in fact render it easy to clean, gives it a smooth working action, and reduces wear caused by solution of the glass during sterilisation. Tests have shown that a ground-glass surface subjected to treatment in an autoclave for three hours at a pressure of 40 lb. per sq. in, has a weight loss per unit area approximately four times that of a fire-polished-surface subjected to the same treatment.

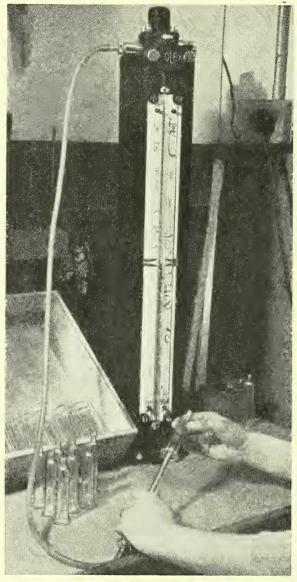
Intensive development work on the Chance interchange-



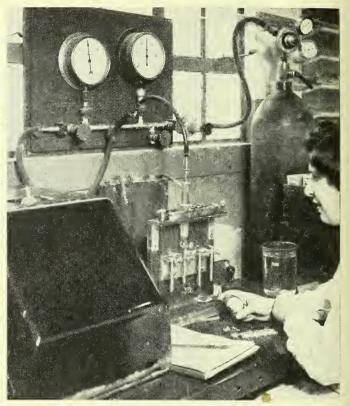




Left, precision-bore glass tubing from the furnace is cut to the length required for syringe barrels. Centre, the nozzle of an all-glass barrel is ground to the required length and taper by means of diamond-impregnated metal-honded wheels. Right, a plunger is ground on a centreless grinding machine.







CHECKING THE ACCURACY: During manufacture of interchangeable hypodermic syringes frequent checking is necessary to ensure that accuracy is heing maintained. The checking processes are illustrated. Left, a Solex air micrometer, used as a comparator, is employed to check the diameter of the harrels. In effect what is tested is the air-leak from the harrels. Below, left, plungers are gauged to 0.00001 in., using a Taylor-Hohson electro imit comparator. Every piston is checked on the instrument for size, "out-of-round" and parallelism at three positions along the length, Above, a syringe is being checked in acco dance with the leakage test specified in British Standard 1946 No. 1263. The time taken for the water meniscus to move over two whole scale divisions is heing noted.

able syringe began only at the beginning of 1946. It was completed within about a year.

To appreciate the problems involved it is important to understand that in manufacture of the conventional syringe the p'unger is matched to its own barrel. Production of syringes and barrels of an interchangeable syringe must, by contrast, remain within one specified set of limits year in, year out. For the smaller Chance syringes, barrel and plunger diameters are accurate to within ± 0.00006 in. of their normal diameter. Apart from the fundamental difficulty of obtaining that high degree of accuracy, an interchangeable syringe demands that the same nominal diameters shall be maintained over a long period of use. Other problems—minor in comparison—involved how to retain that accuracy throughout the manufacturing operations—for example, during the throwing of the flange and closing of the bottom of the barrel. The problems were solved by the middle of 1948 and production was begun.

The initial accuracy of the process of manufacture of the Chance interchangeable syringe rests in the steel mandrel on which the future barrels are formed. The mandrel for a particular size of syringe is placed inside a standard length of Veridia glass tubing, flanged at one end, sealed at the other, and of appropriate bore controlled within 1 to 2 mm, at the start. The mandrels with their glass jackets are placed in the cylindrical heating units that make vertical channels in an electric furnace, which heats the glass to red heat. The furnace is moved up the glass tubes at the rate of 1 in. a minute. The open end of the tube is connected to a vacuum, which draws the softened glass on to the mandrel. The glass tube thus assumes its final acculate internal diameter. On cooling, because of the different coefficients of expansion, the mandrel is free in the glass tube and can be withdrawn.

The manufacture of interchangeable hypodermic syringes demands frequent checking to prove that accuracy is being maintained. The first check on the bore diameter of the Chance syringes is made after the glass tube from the furnaces has been cut to the length required for the syringe barrels, washed and cleaned. A So'ex air mic ometer, used as a comparator, is employed to check the barrels. In effect what is tested is the air-leak from the barrel. The air-leak determines the pressure recorded on a manometer, which in turn can be compared with the reading obtained when the instrument is set up with glass reference rings of known internal diameter. If the barrel passes its test, it goes to the next machine to have a flange thrown. The barrel is placed on a rotating, accurately-machined mandrel, which is somewhat shorter than the glass barrel placed on it. The overlapping edge of the glass is heated by an oxy-gas flame and by centrifugal force the flange is thrown out when the glass melts. The flange is finished off by hand-tooling,

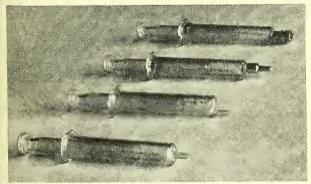
Adding the Nozzles

Two main types of syringe are made, one with a centre and one with a side or eccentric nozzle. To add the eccentric nozzle the flanged tube is placed on a ho'low mandrel closed at its exposed end except for a minute orifice, whose purpose will appear later. The overlapping part of the glass is again heated until soft and is then flattened against the end of the mandrel to c'oce the end of the barrel. While the glass is still soft, the operator plays on it with a gas jet at the point opposite the tiny hole in the mandrel, and at the same time blows though a mouth tube connected to the hollow mandrel. The result is that a small crater is blown in the softened glass. To the edges of the crater is sealed a length of capillary tubing that eventually forms the nozzle of the syringe.

For syringes of the centre-nozzle type, the end is sealed similarly but the nozzle is fo med from the molten glass that is in excess (and nipped off in making the eccentric syringe). When the glass that overlaps the mandrel folds over on melting, a superior and an inferior wheel roll the molten glass to form a cylindrical nozzle. A wire mandrel retains a

centre hole of predetermined bore.

Transfers of graduations and trade-mark are added to the barrels thus made. The back ceramic enamel on the transfers is incorporated in a collod on film which, when the syringe is placed in an oven, is burned off while the ceramic "ink" is fired on the glass. To test the durability of the enamel, graduated barrels have been subjected to the following successive treatments: autoclaving in steam for thirty minutes at 115° C.; immersion in boiling water for



A selection of Chance interchangeable syringes. Top to bottom: Metal tip Luer lock centre nozzle; metal tip Luer side nozzle; all glass Luer side nozzle; all glass Luer centre nozzle.

thirty minutes; and immersion in boiling normal saline solution for thirty minutes. A slight fading of colour was perceptible only after the fourth cycle of tests. The scales are substantially unaffected by long periods of normal use. After firing and annealing of the transfer, the diameter of the barrel is again checked in the gauge room.

The nozzles are ground to the required length and taper

with diamond-impregnated metal-bonded whee's. A leak test is immediately performed by fixing a needle on the mount, inserting the point of the needle in a rubber bung in a beaker of water, and applying pressure by pushing a piston quickly half-way into the barrel and recaining it there for at least five seconds. If no air bubbles appear on the outside of the syringe in that time, the tip is regarded as satisfactory.



PRACTICAL ASPECT: At Wesiminster Lospital, London, a technician rinses interchangeable syringes in distilled water during cleaning operations. Usually plungers and barrels are dealt with in separate batches: it is easier to handle one type of component at a time and the plungers and harrels do not have to be matched.

A flat is formed on the flange to prevent the syringe from rolling when placed upon a smooth surface. Washing and polishing are followed by final inspection.

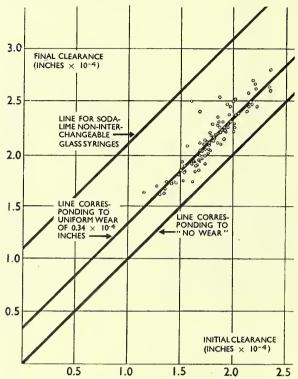
A disadvantage of the all-glass sy, inge is the fragility of the glass needle-mount. To overcome it a modified version of the syringe has been introduced having a large glass boss left on the barrel. To that is cemented a metal needle-mount. A glass-to-metal seal test is then performed similar to that for the normal needle-mount, Each syringe is autoclaved and re-tested. If any barrel from a batch is imperfect after autoclaving, the who e batch is re-autoclaved and again tested. If another rejection is found the entire batch is rejected. After autoclaving, the flat is added, the barrel is washed, polished and finally inspected as with the all-glass model. Subsequent heating, even to 250° C. will not impair the cemented joint.

In the making of the plungers a parallel system is fol owed. Machine-drawn glass tubing to the correct wall thickness and outside diameter is used. A neck is first drawn and the end sealed off. The sealed end is then heated up and blown into a bulb by the operator. The part of the bulb opposite the stem f om which it was blown is flattened and centre of the flat surface heated. The operator sucks to form a depression for the user's thumb. The other end of the tube is sealed, and the final length of the plunger checked.

A centreless grinding machine is used to grind the plunger. Plungers are gauged to 0.00001 in, using a Taylor-Hobson electrolimit comparator which is set up on standard steel roller gauges of the nominal diameter of the piston. Every piston is checked on the instrument for size, "out-of-round," and parallelism at three positions along the length.

The main conditions for interchangeability for syringes of any one size are that any piston shall be an easy fit into any barrel, and that all combinations of piston and barrel when tested shall be satisfactory for limit of leakage between piston and barrel as laid down in British Standard 1946 No. 1263. The dimensions are cont olled so that when a maximum diameter plunger is assembled in a minimum

diameter barrel, the fitting is good and the action smooth and easy. On the other hand, when a minimum diameter piston is assembled in a maximum size barrel, the leakage rate must be within the specified limits.



Final clearances plotted against initial clearances.

To carry out the leakage test specified in the British Standard referred to above the syringe is partially filled with water and is clamped vertically, nozzle uppermost, with the piston in a position such that the axis of the piston makes the largest possible angle with that of the barrel permitted by the clearance between piston and barrel. The syringe nozzle is connected to compressed air at a pressure of 42·7 lb. per sq. in. for all syringes except the 20-mil size, for which the pressure is 28·5 lb. per sq. in. The time taken for the water meniscus to move over two whole scale divisions is noted. The pressure is released, the piston is rotated through 90°, pressure is reapplied, and the time noted for the meniscus to move over two more whole divisions. The times must be greater than those laid down in the specification.

The following table indicates the variety of syringes made at the factory:—

Nominal Capacity	GLASS MOUNT				METAL MOUNT				
	CENTRE		ECCENTRIC		CENTRE		ECCENTRIC		
	Luer	Re- cord	Luer	Re- cord	Luer	Re- cord	Luer	Re- cord	
1 mil	*	*	†	†	*	*	†	†	
2 mil	*	*	Ť	†	*	*	†	†	
3 mil	*	*	†	†	*	*	†	†	
5 mil	*	*	*	*	*	*	*	*	
10 mil	*	*	*	*	*	×	*	*	
20 mil	*	*	*	*	*	alk	ak	*	

Total number of items 78

Daily samples are taken from production for the leakage tests and for other tests. For example, sample syringes are inspected under polarised light, when any strain in the glass shows up immediately. Further monthly samples are taken independently and tested by the laboratory staff at Smethwick. Measurements of the radial gap between piston and barrel are also made in Smethwick. The radial gap is determined by an electrical resistance method, using saturated salt solution as an electrolyte between piston and barrel. To ensure that interchangeability is maintained the samples tested by the laboratory staff are labelled and stored so that interchangeability of syringes made at widely different times can be tested. Thus syringes of current production are known to be interchangeable with syringes made five years earlier.

Interchangeability after use

Extensive tests have been carried out to see whether interchangeability is maintained when the syringes are subjected to continual use. The two main causes of wear are solution of the glass by washing and sterilisation, and removal of glass by abrasion between piston and barrel. Ten 5-mil syringes were subjected to a series of treatments that consisted in all of 176 cleanings and sterilisations by different methods and 1,350 reciprocations of the piston in the barrel. The syringes were assembled in all possible combinations of piston and barrel and the clearance and leakage rates determined. In the diagram, the final clearances are plotted against the initial clearance for each assembly. Compared with the straight line for "no wear," the uniform nature of the wear on the company's interchangeable syringes is evident. For soda-lime syringes subjected to the same treatment, the average wear was 3½ times as much as on the Chance syringc. Soda-lime glass syringes would thus be expected to have an effective life less than one-third the life of a Chance syringe.

The company decided that the new venture should be allowed free rein to develop unhampered by any feeling of lesser importance engendered by being a small unit of the main works at Smethwick. A separate factory was accordingly obtained. In the choice of location two other considerations had also to be borne in mind. One was the availability of a pool of high-quality labour, and the other the need for an atmosphere unvitiated by dirt (which would hamper a project based on extreme limits of accuracy). The choice finally settled upon Malvern, a small town some thirty miles south-west of Birmingham.

A PHARMACIST'S ANTHOLOGY

A STUDENT OF PHARMACY'S "IF"

IF you can roll out pills when all about you Are losing theirs and blaming it on you; Or analyse a salt so none shall doubt you When you arrive to join the waiting queue; If you can learn and not get tired of learning, Nor nod in lecture with half-closed eyes; If you can work till 2 a.m. by burning The midnight oil, yet with the lark still rise;

If you can prove your diagrams botanical
Are faithful reproductions of your slides;
If you are sure Red Kousso is a panicle,
And can name its source and habitat besides;
If you appreciate the hidden beauties
Of coc, mag. t.d.s.p.c.,
And consider it the pleasantest of duties

And consider it the pleasantest of duties
To recite from end to end your friend B.P.;

If you impress your reverend examiners
That everything you ought to know, you know;
If you can write a monograph on lamings

If you can write a monograph on laminas, And mark the three divisions of the sloe;

If nothing is too ultra-scientific,
If every answer's right and none a guess,
Your brain may need a powerful soporific.
But anyhow, you'll be an M.P.S.!

—H. H. LINSTEAD in Square Chronicle, 1922.

HOSPITAL PHARMACY FORUM

CENTRAL SYRINGE SUPPLY

ONCERN was aroused a few years ago by the number of cases of homologous serum jaundice that followed the use of syringes in hospitals and clinics. The process of sterilisation of syringes was reviewed by the Medical Research Council, and it was recommended that the most effective method was that of dry heat. That, of course, is not surprising, since it has long been recognised in pharmaceutical practice that glass vessels intended for aseptic use should be sterilised by dry heat at 150-60° C. for one hour. Such a method is scarcely practicable in busy clinics and in hospital wards. The provision of satisfactory ovens, and the careful measurement of time and temperature, present difficulties that are unlikely to be overcome in such circumstances. The most effective and economic method is to provide dry sterile syringes from a central laboratory. The importance of a dry sterile syringe is readily appreciated by the departments of clinical pathology, where the taking of specimens of body fluids must be carried out in such a way as to avoid undue risk to the patient and ensure that the specimens are not destroyed or rendered useless by the process of taking them. For that reason the hæmatologist, the bacteriologist and the biochemist often maintain their own private supply of syringes, which they sterilise themselves, rather than using the syringes found on the wards. The traditional boiling-up process carried out by the nurses is liable to failure from a number of causes, which may be enumerated as follows:

(1) The syringes are subject to hard wear, since only a small number are kept on each ward, and they are in continuous use.

(2) Repeated boilings, often in hard water, destroy the surface of the glass and produce an ill-fitting syringe that leaks and increases the risk of infection.

(3) Markings become obscured.

(4) The syringe is dished-up wet, thereby increasing the risk of contamination.

(5) The hurried conditions under which the process is performed tend to result in inadequate timing and to increase the number of breakages.

(6) Needles frequently become loose owing to wear on the syringe nozzle and sometimes block owing to precipitates from hard water.

The supply of syringes from a central laboratory obviates many of these difficulties, and a number of hospitals have opened laboratories for the purpose. In some instances the laboratory has been attached to the pharmaceutical department and in others to the bacteriological laboratories. In favour of the former arrangement one may point out that methods of sterilisation fall within the normal scope of training of the pharmacist, that he is in most cases already providing sterile materials (for injection) in large quantity, and that he has a distribution service in the hospital that can readily be adapted to the issue of syringes. It may further be said that the bacteriological department, concerned as it is with the cultivation of infected material, is not an appropriate centre for the provision of a supply of sterile instruments.

Bulk Sterilisation of Syringes

It should not, however, be assumed that the sterilisation of syringes in bulk is an easy matter to be undertaken lightly in makeshift conditions. The pharmacist called upon to provide such a service would be well advised to consider the responsibility he is about to carry. The premises in which the service is centred need not be vast or elaborate, but must be well lighted and well ventilated with clean air. Provision should be made for the rapid washing of syringes, and there should be a natural flow of the process round the laboratory, so that used syringes are

received at one side and circulate through the washing, drying, lubricating and assembly stages and emerge packed and sterilised at the opposite side of the laboratory. In cramped and dismal surroundings such a process is not easily established and as a result, unnecessary cross-movement, confusion and even dangerous error may arise.

The essentials of the process are:

- (1) INSPECTION of the used syringes and the segregation of those needing special attention. It is a normal requirement that the nurse shall thoroughly rinse the syringe immediately after use, but even so it sometimes happens that syringes are returned containing oil, blood traces or other fouling which need special attention.
- (2) Washing. Warm soapy water is to be preferred to any of the more modern detergents, since many of the latter adhere tenaciously to the glass and are removed only with difficulty. A Nylon brush is useful for cleansing the barrels. The syringes are then thoroughly rinsed in tap water and finally in distilled water so that no traces of mineral matter remain.

(3) DRYING. At this stage the syringes are dried by heating at 80-100° C. in an oven with a circulation fan. Inspection after the drying reveals any inadequacy in the washing process, Clean syringes may go forward to be lubricated.

(4) LUBRICATION. Each syringe should be adequately lubricated with a mixture of liquid paraffin (10 per cent. by volume) and petrolcum ether. The application of the precise amount of lubricant is a matter of skill. Excess leaves a messy instrument and too little leaves dry patches which make the movement of the piston jerky and increase the amount of wear. Silicone lubricants may be used. They have the advantage of being free from the risk of charring during the sterilisation process. There are two kinds of silicone lubricant: the sometimes-used high-viscosity type, which requires prolonged heating to give some degree of permanency (a process tantamount to building up a layer of silica on the glass and thereby altering the fit of the plunger); and the lower-viscosity (not permanent and requiring the syringes to be lubricated each time they go through the process). The method is much more expensive than using paraffin and shows little advantage other than that stated.

(5) ASSEMBLY. In some hospitals it is the custom to send out syringes with needles attached but there is much to be said for preparing them separately, so that the operator has a choice of needles and there is no necessity to duplicate packings.

- PACKAGING. The syringes may be packed individually in glass or metal tubes, or they may be packed in multiple boxes. The former method is more complete from the standpoint of asepsis, since each syringe remains sealed until required for use, whereas, in the multiple pack, the box may be opened a dozen times or more as the syringes are used. The risk of infection in opening the box, however, need not be great. If the syringes hang tip downward in a rack inside the box it is a simple matter to pick out one at a time without contaminating the remainder. Indeed, the technique is similar to that in common use in hospitals in removing swabs from a dressings drum. The chance of airborne infection during the few seconds required to remove a syringe is small, especially as the syringes are dry. The multiple pack saves time in the laboratory, facilitates transport, and reduces the risk of breakage.
- (7) STERILISATION. The syringes in their final containers are subject to heating at 160° C. for one hour. In a central laboratory large numbers will be sterilised at

1953 | 1952

a time-probably a hundred or more in a batch. There are practical difficulties in ensuring that every syringe is brought to the sterilising temperature for an adequate time. The oven used must be constructed so that the heat distribution is as near perfect as can be. This is assisted by the use of fans. The thermal control must be to narrow limits and it is wise not to depend solely on one instrument. It is useful to place a dummy package in the centre of the load into which is fixed a delicate thermal instrument such as a thermistor or a thermocouple. By this means the normal recording temperature gauges of the oven may be interpreted more accurately and a routine established so that the technicians can follow simple instructions as to the time for switching off. Preliminary experiments with the apparatus will reveal some surprising time lags, which must be allowed for in the routine to be established. A final safeguard to the pharmacist is occasionally to have a bacteriological control performed by an independent worker.

A wide variety of syringes is now available for use in a service such as that outlined above. The most satisfactory ones are those having glass or ceramic plungers and in which the diameter of the metal-glass junction at the tip is as small as possible. The older type, in which the metal end is attached to the barrel at its greatest diameter, frequently fail, owing to softening of the solder during heating. There are available syringes with small glass nozzles fused directly into the glass. That type of syringe is excellent except that it is perforce made from soda glass and consequently is not so resistant to repeated processing as borosilicate glass would be. Syringes with interchangeable

barrels are available with metal tips or made entirely of glass, the latter having a higher breakage rate in the laboratory. Interchangeability is a great boon when handling large numbers, and the high-quality boiosilicate glass used is resistant to repeated washing and heating and to wear. One of the greatest "selling-points" of the central syringe service is the provision of needles that are checked and retouched after each use. Care of needles is as important as care of the syringe, and can be a means of effecting economy. The important factors to note are that:

(a) the lumen should be clear: this can be ensured by ejecting distilled water through each before the final

sterilisation;

(b) the point should be really sharp, and the bevel true. This may be seen by direct inspection using a watch-maker's eyepiece, and by passing the needle through a thin disc of rubber stretched over an ointment pot;

(c) there should be no corrosion or weakening at the junction of the hub and the shaft.

It is worth spending a little money on the best quality stainless-steel needles, since their prolonged life, when properly cared for in the laboratory, amply repays the difference in price between them and inferior ones.

For the guidance of those who may be charged with setting up a syringe service, it may be stated that a laboratory to supply 1,000-1,200 syringes a day costs about £3,000, apart from the premises. That estimate assumes that one starts with an empty room of adequate dimensions. Three technicians can handle approximately 500 syringes a day without undue pressure of work. It is advantageous to have each technician competent in every part of the process so that the service is not impaired when one is absent.

RE-EXPORTS

OVERSEAS TRADE IN 1953

Further Decline in Exports of Drugs and Medicines

HE total for the United Kingdom exports for the year 1953 was £2,582 millions, about the same as in the previous year and little different from 1951. Imports in the year were va ued at £3,345 millions, £134 millions less than in 1952. The decline be ween the two years is attributable to the inclusion in the figures for 1952 of large imports in the early months before restrictions imposed in November 1951 and March 1952 were fully effective. Although the relaxation of many of those restrictions in 1953 had only a limited effect on the figures for the year, the import total of £1,653 millions in the second half was 5 per cent. more than in the corresponding period of 1952, reflecting the increase in production in recent months. The excess of imports (valued, c.i.f.), over exports and re-exports (f.o.b.) was £658 millions.

The contribution to exports made by drugs, medicines and medicinal preparations at £30.7 millions showed a further decline of almost £1 million against 1952. (1952 was down £2.4 m llions on 1951.) On the other hand imports of proprietary and other prepared medicinal products went up to £5.7 millions (from £4.4 millions). How those commodi-

IMPORTS		ı	1953	1952
Chemicals, d.ugs, dyes,	etc. (gr	oup	£	£
total)			45,920,686	44,099,870
Bo ic acid			204,604	169,294
Вогах			654,154	457,970
lodine			352,752	676,457
Phenol			7,826	698,720
Menthol			126,477	187,592
P oprietary medicines			301,53€	322,385
Other p epared medicine			5,456,443	4.030,484
Essential oils (excluding tur	rpentine)		3,835,551	4,125,219
Tragacanth			329,845	697,774
Acacia			913,477	956,973
Cinchona bark			70,832	137,034
Ipecacuanha and other roo			318,105	229,824
Bees wax			476,063	204,663
Carnauba and candelilla w			835 021	880,691
Challes etc	•••		1,021,145	1,931,057

TCE-EMI ORIG	1755	1752
Gums acacia and tragacanth Waxes (excluding sealing and paraffin) Dougs, raw Dougs, manufactured Essential oils	196,404 244,960 731,159	260,6 7 9 611,820 623,040
EXPORTS	1953	1952
Chemicals, drugs, dyes, etc. (group total)	£ 129,992,537	£ 138,080,474
Acetone	773,549	542,184 284,869
Salicylic acid Dete gents	139,674	*
Disinfectants, insecticides. weed-killers, etc	4,664,473	6,135,641
Spirits, pe fumed Zinc oxide	638,818 271,542	225,917
Olycerin D. ugs, medicines, medicinal prepara-	1,209,721	374,489
Quinine and its salts	30,711,717 190,818 6,420,472	296,058
Proprietary medicines Aspirin Insulin	706,819	
Penicillin salts Penicillin injections	2,066,145	2,446,413 2,083,260
Penicillin tablets, lozenges, oint- ments	603,573	
Antibiotics other than penicillin Antipaludics	3,253,256 779,531	800.924
Sulphonamides Essential oils	2,546,233 457,465 6,995,963	757,386
Perfume y and toilet p eparations Lipsticks, face powders, etc. Dentifrices	2,104,416	2,212,631
Toilet soaps	2 205 049	

*Not comparable to 1953.

ties fared for which the Board of Trade gives individual statistics can be seen in the accompanying tables. Outstanding amongst the basic chemicals was the slump in phenol. The monthly figures for December are on p. 109.

UNITED STATES TARIFFS

Report of Commission on Trade Policies

THE Randall Commission, which was appointed by President Eisenhower to examine United States foreign trade policies, rejects the charge that U.S. tariffs are unduly high. In a report signed by the majorny of its members the Commission states:

It seems clear by any test that can be devised that the United States is no longer among the higher tarift countries of the world. Taken by and large, our trade restrictions are certainly no more of a cause of payment imbalances than the cause of payment inibalances than the rigidities maintained by other nations... We are fully aware of the arguments for free trade. It is sufficient to say that, in our opinion, free trade is not possible under conditions racing the United States today.

Among the recommendations made

in the report are the following:
(1) The President should be empowered on the basis of recommendations by the Commission to simplify certain

(2) Tariff and Customs procedures should be simplified and valuations for duty purposes streamlined.

(3) The International Customs procedures

duty purposes streamlined.

(3) The International General Agreement on Taritis and Trade "should be renegotiated with a view to contining the functions of the Contracting Parties" to sponsoring multilateral trade negotiations, recommending broad trade policies to member governments and providing a forum for consultation regarding trade disputes disputes.

disputes.

(4) The President's powers under the Trade Agreements Act should be extended for not icss than three years, with appropriate saleguards, and after a trial and study period consideration should be given to extending the Act "for a longer period than three years" in order to remove "an aura of instability" in United States trade policy.

policy.
(5) The President should be authorised (5) The President should be authorised to reduce tariff rates by not more than five per cent. of present rates in each of the first three years of the new Act.

(6) The controversial "peril point"

and "escape clause," now limiting the President's powers to reduce tarifts, should be retained but the law "should be amended expressly to spell out the fact that the President is authorised to disregard findings under these provisions, whenever he finds that the national interest of the United States requires it."

But these recommendations strongly criticised in a minority report by Congressmen Reed and Simpson. They object that the report recom-mends aid to improved and improving foreign nations through reductions in U.S. tariffs at the expense of American industries and American wo.kers. In a separate dissent, another mem-ber of the Commission (Senator Eugenc Millikin, the influential chairman of the Senate Finance Committee) sided with the two House Members in objecting to the fifth recommendation above. He said the members did not now have facis on which to determine whether such a delegation of power was desirable.

STANDARD FOR **FINGERSTALLS**

COPIES of the following new British standard are available from the British Standards Institution, Sale Branch, 2 Park Street, London, W.1. from the

Diagnostic Fingerstalls

BRITISH Standard 2055, 1953 ("Diagnostic Rubber Fingerstalls") provides for both single finger and double finger natural rubber fingerstalls with coneshaped aprons for diagnostic work. The fingerstalls may be manufactured either by rubber latex dipping or rubber solution dipping. Details of manufac'ure, dimensions and physical properties plus an appendix with advice on storage are given. Price 2s.

WORLD TRADE

Paraguayan Currency Revalued, -The International Monetary Fund has agreed to a change in the par value of the Paraguayan currency from six to fifteen guarantes for one United States doliai, as from January 1.

U.S. Aid to Pakistan.—The Pakistan Government has announced the signing in Karachi of five agreements with the United States Foreign Opera-tions Administration for nnancing national development. Under the agreements, the United States will supply chemical fertilisers and grant dollars for a plant protection project aimed at encouraging the general use of modern methods and insecticides against locusts and other pests.

Japan and G.A.T.T.—Twenty countries have agreed to extend mostfavoured-nation tecatment to Japan pending that country's accession to the General Agreement on Tailfs and Trade (G.A.T.T.). The countries which have signed are:—Austria, Belgium, Denmark, Finland, Ge.many, India, Italy, Netherlands, Turkey, United Sta es, Chile, Sweden, Luxemburg, Haiti, Norway, Ceylon, Nicaragua, Dominican Republic, Burma and Uruguay, Among those which have not signed are the United Kingdom, Australia, New Zealand and the Union of South Africa.

West German Chemical Plant.— Overall sales of the Farbwerke Hoechst, A.G., one of the largest successor companies of the former I. G. Farben chemical combine, totalled DM940 millions in 1953, about 23 per cent. more than in 1952. Exports, which accounted for 35 per cent. of the company's overall sales, rose by 58 per cent. in 1953 over 1952. The The company state that sales prospects for 1954 are favourable. New investment is intended to be used for the expansion of the production of antibiotics.

EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Qualifying examination held by the Pharmaceutical Society in Scotland in January:-

Anderson, William J. C., Paisley Armstrong, Frances I., Garthdee Armstrong, Frances I., Garthdee
Bates, Ronald, Derby
Baum, Manfred, Newcastle-on-Tyne
Birchall. G. A., Wigan
Birnie, William A., Rcnfrew
Boardman, Peter, Rossendale
Boyles, Dennis J., Bedford
Brooks, Joan K., Halifax
Brown, John S., Glasgow
Brown, Thomas, Crail
Caithness, Agnes J., Bo'ness
Calvert, William, Carlisle
Cameron, Mary H., Glasgow
Cantor, Arnold C., Leeds
Carr, James R. I., Leeds
Carr, James R. I., Leeds
Carruthers, William T., Wishaw
Carter, Shirley H., Leeds
Castle, George, Leeds
Charnock, James S., Burscough Bridge
Clumpas. Frank B., Liverpool
Cowen, Donald S., Keswick
Crane, Malcolm, North Shields
Crawford, Margaret F., Milngavie
Dansky, Allen J., Liverpool
Darnbrough, Peter M., Birkenhead
Davies, Joyce, Bradford
Deadman, Richard, Halifax Bates, Ronald, Derby

Dell, Dorothy, Sunderland Denoon, Veronica M. P., Edinburgh Doherty, John J., Johnstone Dowdalls, Hugh, Coatbridge Elder, Thomas A., Miliord Haven Finlayson, Vera E., Carlisle Forster, John E. H., Newcastle-on-Tyne Geddes, Janet C., Drumoak Gill, Ronald, Newcastle-on-Tyne Gill, Ronald, Newcastle-on-Tyne Gordon, James R. A., Peterculter Gray, William G., Berwick-on-Tweed Green, Bernard S., Glasgow Haigh, Helen J., Batley Harrison, Brian, Spennymoor Hodkinson, Derek G., Manchester Hodson, Donald, Burnley Holdsworth, Margaret E., Leeds Holdsworth, Margaret E., Leeds Hollowood, Brian F., Nantwich Houston, Jean R., Irvine Hunter, Margaret R., Glasgow James, Margaret R., Wirral Jenkinson, Jeremiah R., Preston Jones, Keith, Darlington Knibb, Richard J., West Hartlepool Leak, Kenneth, Washington Lee, Harry, Wallsend-on-Tyne Leitch, Agnes J. Glasgow Lee, Harry, Wallsend-on-Tyne Leitch, Agnes J. Glasgow McDougall, Ian R., Glasgow McDougall, Stanley M., Glasgow McGovern, William C., Glasgow McGowan, George McK, R., Coatbridge McKay, Alistair C., Ceres McLeod, Hector A., Ardgay McShefferty, John, Port Glasgow Meager, John Mr., Leed Miller, Alexander G., Gorebridge Milne, Gilbert (jr.), Aberdeen Murray, Barbara C., Huyton Newall, Geoffrey, Rochdale Nicolaou Miltiadis, Aberdeen Nuttall, Ruth, Southport Olswang, Henry S., Sunderland Ord, Edith L., Chryston Pickard, Alison S. W. (Mrs.), Dundee Picken, Allan, Doncaster Richardson, Arthur C., Withernsea Robinson, Norman A., Boldon Colliery Smith, Patricia, Wakefield Soutter, Joseph C., Aberdeen Spence, Douglas W., Sunderland Spencer, Jean, Dewsbury McShefferty, John, Port Glasgow Spencer, Douglas W., Sunderland Spencer, Jean, Dewsbury Stamp, Enid M., Trimdon Station Thompson, Barry, Rotherham Tomlinson, Geoffrey F., Leeds Toussaint, Clive B., Walsall Trenbath, Sheila R., Harrogate Turnbull, Thomas S., Llanygryn Vickery, Alfred K., Southampton Wadsworth, Joan M., Failsworth Watsou, Margaret M. Brad ord Watson, Margaret M., Brad ord Webb, Gordon H. D., Bolton White, Evelyn M. F., Ed'nburgh Wilson, John, Castle Douglas Wilson, Malcolm, Huddersfield Woods, Stephen M., Ayr Zinck, Barbara E., Stoke-on-Trent

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 27: There has been a continued demand for CRUDE DRUGS, many of which remain scarce on the spot. There are still no offers of Cape Aloes from origin, and supplies are not expected to be available for another two or three months.

Offers of Alexandrian SENNA LEAVES and SIFTINGS from origin were difficult to obtain and such as there were indicated high prices. A parcel of better grade PODS was offered at about 6s. per lb. on the spot, GINGER was again dearer both for the African and Jamaican. Scarcity of CHILLIES and an improved demand helped to raise the price of Mombasa by 10s. per cwt. Increased buying of MERCURY by the United States gave support to the metal which has been weak for several months. Prices quoted ranged from £62 10s. to £64 10s. per flask against £61 15s, previously. Tolu BALSAM £61 15s, previously. Tolu Balsam continues to rise in value as the origin report a small crop for this season Cut Quillaia advanced a further 10s. per cwt. on the week's trading. In AROMATIC SEEDS, Dutch CARAWAY was quoted 5s. 6d, per cwt. dearer on the spot while Moroccan CORIANDER and FENUGREEK also provided a firm market.

In PHARMACEUTICAL CHEMICALS, CIT-RATES were reduced by fourpence per lb.: the new scale is given below.

lb.; the new scale is given below.

Most of the ESSENTIAL OILS remained firm. LEMONGRASS after easing somewhat became firmer, ending the week one penny per lb. dearer.

ANISE on the spot remained unchanged at 9s, a lb, but shipment offers were quoted at about 9s, 1½d., c.i.f. BERGAMOT was reduced by 2s, 6d. per lb.

No change is to be made in the

No change is to be made in the prices of unrefined oils allocated by the Ministry of Food to primary wholesalers and large trade users during the period ending February 20. The Ministry's stock of LINSEED OIL is now small, but offers for the balance are still accepted.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JANUARY 26: PYRE-THRUM 20 per cent, dewaxed for aerosol bombs declined to \$9.90 per lb., down 10 cents, under competitive pressure. Interest was centred in an export order for 1,000 metric tons of 75 per cent. DDT for Persia. With little material available, Japanese MENTHOL was 25 cents higher at \$8.75 per lb. Crude GLYCERIN prices advanced in sympathy with the strengthening trend abroad. Activity in BOTANICAL DRUGS showed some slight improvement with several prices stronger. Higher per 1b. were PERU BALSAM at \$1.35 (up 10 cents); selected Sassafras bark, 60 cents (5 cents); AGAR, Kobé No. 1, \$2.65 (15 cents); and SCAMMONY ROOT, 10 cents (2 cents). ERGOT at \$2.50 was down 50 cents per lb. owing to sluggish demand. Higher per lb. among ESSENTIAL OILS were LEMONGRASS, at \$1.35 (up 15 cents); Californian ORANGE, 80 cents (7½ cents); CARDA- MOM, \$32.00 (\$2); Formosan CITRO-NELLA, 78 cents (3 cents); and Turkish GERANIUM, \$6.00 (30 cents), Lower per lb. were CLOVE, \$5.00 (down 50 cents), and CADE, 30 cents (8 cents).

Pharmaceutical Chemicals

ANEURINE HYDROCHLORIDE. — Prices (per kilo) range from £46 for 1-kilo down to £45 15s, for 100-kilo lots,

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	T	1-cwt.	28-lb.	7-Ib.
CARBONATE SALICYLATE SUBGALLATE		s. d. 23 5 22 6 21 8	s. d. 23 8 22 9 21 11	s. d. 27 5 26 4 25 6
SUBNITRATE	• •	20 11	21 2	24 4

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. The present 1-cwt. rates for other salts are:—CITRATE, B.P.C., 22s., 8d.; NITRATE, CTYSTAI, 148. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYGHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

CITRATES—Lower. Rates (per lb.) are as follows:—Potassium, 1-cwt, lots, 3s. 6½d. 28-lb., 4s. 6d.; Sodium, 1-cwt., 2s. 11½d.; 28-lb., 3s. 10d. (powder of both salts two-pence more), IRON AND AMMONIUM, 1-cwt. lots, 3s. 10½d. granulated, 4s. 2½d. scales.

CREAM OF TARTAR.—Rates for the home trade are now as follows:—1-ton lots, 191s. per cwt.; 10-cwt., 192s.; 5-9-cwt., 193s.; 2-4-cwt., 194s.; 1-cwt., 195s.

ERGOMETRINE.—For 20-gm. lots the price of the MALEATE, B.P., is £37 10s. per gm. and the TARTRATE, £34 15s. per gm.

FERROUS SULPHATE.—1-cwt. lots of B.P. crystals are 36s. 6d. and 5-cwt., 35s. 6d. per cwt.; granulated. 2s. 6d. per cwt. extra. Exsiccated is 90s. per cwt.

FORMALDEHYDE. — B.P. solution is 34.

HYDROGEN PEROXIDE, — Manufacturers' price for single carboys of 20 volumes is 4s, 6d, per gall.

HYDROQUINONE. — Quotations for 1-cwt. lots are 10s 6d. per lb. For smaller quantities. viz., 28-lb., 10s, 9d.; 14-lb., 11s. 6d.: 7-lb., 12s.

LITHUM SALTS. — Current minimum rates (5-cwt.) are as follows:—Benzoate. 10s. 6d. per lb.; Carbonate. B.P.C. 10s. 9d.; Chloride (commercial), 10°. 3d. to 10s. 6d.; Hydroxide, 10s.; Citrate. B.P.C. 8°. 6d.; Sulphate, 8s.; Salicylate, 9s. 3d. (10-cwt.), delivered.

MAGNESIUM HYDROXIDE.—Makers' prices for BPC., are: 1-cwt, lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM PEROXIDE.—Price (per 1b.) for 1-cwt, lots of B.P.C. (15 per cent.) is 3s, 11d.

NICOTINIC ACID.—Prices per kilo are 78s. for 1-kilo and 70s, for 50-kilo lots

for 1-kilo and 70s, for 50-kilo lots.

Nikethamide. — Prices per kilo are:—

1-kilo, 115s.; 50-kilos, 107s.

OXALIC ACID. — 1-ton lots of British material are £138 per ton delivered.

PHENOBARBITONE. — 1-cwt, lots are 25s, 6d, per lb.; Sodium is 6d, per lb. more than above rates.

PHENOLI'HTHALEIN. — Rate for 1-cwt. lots is 10s. 10d. per lb.

POTASSIUM ACETATE.—B.P. is 2s. 8d. per lb. in 1-cwt. lots.

POTASH, SULPHURATED. — B.P.C. lump is 2s. 3d. per lb. for 1-cwt. lots.

Pyrogallic acid. — Pure crystals are 18s. per lb. in 1-cwt. lots.

QUINIDINE.—Prices (per oz.) for minimum 100-oz, lots in the home market are: ALKALOID, 8s, 9d.; SULPHATE, 6s, 7d. Extra charges for small lots.

RESORCINOL.—1-cwt. lots are now quoted at 13s per lb. by manufacturer.

SACCHARIN. — In lots of 1-lb, and over B.P.C. powder is quoted at 99s, 10d, per lb., the SODIUM SALT is 80s, 10d, per lb. Prices include duty and carriage.

SALICYLAMIDE. — Price (per 1b.) for 1-cwt. lots is 8s, 6d.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

SODIUM CARBONATE, — B.P. exsiccated is 60s, 6d, per cwt.

SODIUM SULPHATE.—Makers' prices are from £10 10s, to £16 10s, per ton as to quantity for B.P. crystals,

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots in paper-lined bags is £33 2s. 6d. per ton; 1-cwt., £2 1s. 8d.

STEARATES.—Prices for minimum 1-ton lots are as follows:—ALUMINIUM (all grades), £232 per ton; CALCIUM (precipitated), £210; LEAD (30 per cent.), £247; LITHIUM, ordinary quality, £439; MAGNESIUM, £231; ZINC, £233.

STEARIC ACID.—B.P.C. 1934 in 1-cwt. lots is 170s.; POWDER, 180s.

TEREBINTH.—B.P. is 2s. 3d. per lb. for carboy lots.

TERPIN HYDRATE.—Prices are from 5s. per lb. upwards, as to quantity.

THEOBROMINE.—ALKALOID is now about 19s, 6d, per lb, and the sodium salicy-late, 14s, to 14s, 6d, for 1-cwt, lots.

Solvents

ACETALDEHYDE.—The 100 per cent, is 145s, per cwt. for drum lots.

OCETATES.—Prices (per cwt.) for drum lots are as follows:—AMYL (technical). 240s, and (B.S. 552: 1950) 242s.; BUTYL (B.S. 551: 1950), 186s.; ETHYL (B.S. 553: 1950), 156s.

ACETONE. — Drum lots are from £108 per ton for technical quality.

AMYL ALCOHOL. — Technical grade is £237 per ton.

BENZENE. — Thiophene-free is 9s. 0½d. per gall, in 50-gall, barrels and pure, 6s. 0½d. per gall.

BUTYL ALCOHOL (B.S. 508: 1950),—1-ton lots are quoted at £163 10s, per ton and drums at £166 10s, per ton.

Carbon Tetrachloride, B.P. — 1-2 carboy lots are £120 per ton. Technical, in 40-gall, drums, in less than 1-ton lots, is £76 per ton; 1 ton and under 2 tons, £74 10s.; 2 tons and under 4 tons, £74: 4 tons and upwards, £73.

DIMETHYL ACETAL.—Drum lots are quoted at 163s, per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s, per ton (5s, $7\frac{3}{4}$ d, per gall.) in 10-ton lots. Essence grade is from 17s. to 19s, per gall., as to quantity.

PHTHALATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s.; DIBUTYL, 2s. 1½d.; DI-ISO-BUTYL, 1s. 11d.; DIETHYL (normal grade), 1s. 11¾d.; DI-METHYL, 1s. 8¾d.

Crude Drugs

ALOES .- Prime Cape is now 170s. per cwt, in crates on the spot. Shipment, no offers from origin, Curação is 330s, on the

ANISCED.—Chinese star is offered for shipment at 190s. per cwt., c.i.f.

BALSAMS.—Quotations (pcr lb.) are:— Canada: 21s. 6d., spot. Copaiba, soluble Para, 12s. 6d.; insoluble, 8s. 6d., spot. Peru, 8s. 9d. in bond. Tolu (genuine as imported), 22s, 6d., spot, and 21s. 6d., cif

CAMPHOR. - Chinese (B.P.) powder remains scarce on the spot with others at 4s. 10½d. to 5s. per lb., duty paid. ¼-oz. tablets are 5s. 3d. per lb.; 2½-lb. slabs 4s. 9d. per lb., duty paid. Synthetic powder is 3s. /d. per lb. tor 100-lb. lots.

CAPSICUMS.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 200s., spot.

CARDAMOMS.—Firm, Aleppy greens, 15s., spot; shipment offers are 14s. 6d., per ib., c.i.f.

CHILLIES.—Mombasa are 295s. per cwt. on the spot, and 2/5s., c.i.f. Zanzibar are 280s., c.i.f.; No spot available. Sierra Leone not offering.

CINCHONA. — Parcels of British East African chips and broken quills are offered from 1s. 9d. and 1s. 11d. per lb., respectively, as to test.

CINNAMON. — Ceylon OOOO, 3s. 5d. per lb., c.i.f.

CASSIA BARK.— Whole on the spot is about 92s. 6d. per cwt., in bond, and for forward delivery, 82s. 6d., c.i.f. Broken, 67s. 6d., in bond, and 62s. 6d., c.i.f.

CHERRY BARK.—Scarce. Thin natural is from 1s, 10d. per lb., duty paid, and rossed, 2s. 3d., on the spot.

ELEMI.—Offers are from 1s. 9d. per lb. on the spot.

ERGOT.—Quiet, Portuguese for prompt shipment is 15s. 6d. per lb., c.i.f., with spot value around 17s.

GALANGAL, - Spot material is about 90s. per cwt., with forward offers of 80s., c.i.f.

GENTIAN - French natural on spot is 100s. per cwt., and from 92s. 6d. to 95s., c.i.t.; suced, 115s. spot.

GINGER.—Firm. African on the spot is from 100s. to 105s. per cwt., as to quality, and for shipment buyers at 95s., c.i.f. Jamaican No. 3 is also firmer at 125s. on the spot and 120s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts on the spot are quoted at 110s, per cwt. February-March shipment is 99s., c.i.f.

HENNA. — Indian green leaves are at 90s. per cwt. on the spot and 85s., c.i.f., January-February shipment; brown leaves, 65s., spot. Sudanese are 100s.,

HONEY.—Firm. Australian light-amber is firm on the spot at 110s, to 115s, per cwt.; medium-amber 95s, to 100s, Argentine is from 115s, to 120s, and Jamaican, 120s, to 130s.

HYDRASTIS.—Root is 18s. per lb., on the

IPECACUANHA.—Nicaraguan for shipment is about 46s. per lb., c.i.f.; Colombian, 44s., c.i.f. Spot: Matto Grosso, 46s.; Colombian, 49s.; Nicaraguan, 54s. nominal.

KARAYA.—No. 1 gum on the spot i quoted at 200s. per cwt.; No. 2 is 140s.

KOLA NUTS.-African halves are available on the spot at from $4\frac{3}{4}$ d, to $5\frac{1}{2}$ d, per lb., as to quality.

LIQUORICE.—Natural whole root, spot; Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 37s. 6d. Block juice quotations

are 195s. per cwt., delivered. Turkish stick is 240s. and Italian stick, 475s. per cwt., both duty paid.

LOBELIA.—Herb is scarce on the spot. Nominal value 3s. 6d. per lb.

MERCURY.—Dearer. Nominal spot value from £62 10s. to £64 10s. per flask (76 lb.), ex warehouse.

MYRRH,—Aden selected sorts are quoted at £14 10s, per cwt, on the spot. Siftings are from £7 to £8.

ORRIS ROOT .- Offers of Florentine good sorts are 180s, per cwt.

PEPPER.—Firm. White Sarawak is now quoted at 6s. 10½d, per lb., with afloat parcels from 6s. 7d, to 6s, 8d., c.i.f., and January shipment, 6s. 6½d. Black Sarawak has been sold at 6s. 2½d, per lb., spot and Black Malabar 770s. per cwt. spot and 750s., c.i.f. for afloat.

QUILLAIA.—Supplies of whole bark are cleared on the spot. Cut has advanced to 185s. per cwt, on the spot.

RAUWOLFIA (SERPENTINA). prompt shipment are at 4s. 6d., c.i.f.

RHUBARB.—Chinese. Rough round, high dried (A) has been offered about 8s, 9d. per lb. Smaller sizes of same quality not available.

available.

SEEDS.—Prices per cwt, are: Anise.—
Cyprian, 170s, spot London. Caraway.—
Dutch, 104s, quoted, duty paid. Celery.
—Indian still offered at 210s., spot.
Coriander.—Moroccan, 57s. 6d., duty
paid (55s. in bond); English, 75s.;
Moroccan is dearer for shipment, at 50s.,
c.i.f. Cumin.—Cyprian, 130s.; Moroccan,
127s. 6d., duty paid. For shipment,
Cyprian is 108s. and Moroccan, 103s. 6d.,
both c.i.f., London. Dill.—Indian is both c.i.f., London, Dill.—Indian is firm at 90s., spot London, Fennel.—Indian, 125s. now quoted spot London. Fenugreek.—Moroccan, 49s., duty paid, spot London. MUSTARD.—English 60s. to 75s., according to quality.

SHELLAC.—Weak, Spot quotations are:—F.O.T.N. pure 250s.; F.O. standard No. 1, 265s.; fine orange 280s, to 325s, per cwt., ex-London warehouse.

SQUILL.—Italian white on the spot is 70s. per cwt. nominal. No. 2 is about 60s., no offers of white from origin.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per cwt.

STROPHANTHUS.—Kombé, 100 per cent. is about 10s. 6d. per lb., on the spot, and Gratus, 17s. 6d.

STYRAX.—Spot is 5s. 9d. per lb., duty naid.

TAMARINDS.—Quiet, Madras for shipment (1per cent. stones), 67s. 6d., c.i.f.; (5 per cent.), 65s., c.i.f.

TURMERIC.—Firm. Rajapore is 125s, per cwt., paid for spot; Madras finger, 130s, New crop for March-April shipment is firmer at 97s. 6d., c.i.f.

TRAGACANTH.—No. 1 ribbon on the spot £105 per cwt.; No. 2, £85; No. 3. £65.

Uva ursi.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s, per cwt, on the spot and from 130s, to 145s, c.i.f. Belgian, 185s., spot.

Waxes.-Bees'.-Dar-es-Salaam. WAXES.—BEES'.—Dar-es-Salaam. Spot, 445s. pet cwt., nominal; February-March shipment, 442s. 6d.; Sudanese, 430s., duty paid and 385s., c.i.f.; Benguella, no spot, shipment 390s., c.i.f.; Abyssinian, 435s., duty paid and 380s., c.i.f. Candelilla.—Spot is unchanged at 635s. per cwt. Carnauba.—Prime yellow on the spot is 1,050s, per cwt.; shipment 995s., c.i.f.; fatty grey is 730s, on the spot; shipment, 700s., c.i.f. 700s., c.i.f.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per 1b.

Essential and Expressed Oils

Anise.—Firm. Spot supplies are 9s. per lb., with shipment offers around 9s. 1½d., c.i.f.

BERGAMOT.—Spot value is about 80s. per

CADE.—Spanish is about 3s. per lb. on the spot for 1-cwt, lots.

CAMPHOR, WHITE.—Chinese is 3s. per lb., on the spot.

CARAWAY. - English-distilled is offered at 45s.; imported oils are from 21s. per th, for spot.

CHENOPODIUM.—1-cwt, lots are 47s. 6d.

CINNAMON. — B.P. oil on the spot is quoted at from 60s, per lb, English bark oil is offered from 23s, per oz. Ceylon leaf is from 9s, per lb.

CITRONELLA. — Quiet. Prices (per lb.) are:— Ceylon, spot, 3s. 9½d. per lb.; shipment, 3s. 11d., c.i.f.; Java, 6s. 3d., duty paid; shipment, 5s. 9d., c.i.f.; Formosa, 6s., duty paid and 5s. 4½d., c.i.f.

CLOVE. — Madagascar leaf is firm at 12s. per lb., duty paid, and 10s., c.i.f., for shipment. Redistilled stem oil from 17s. 6d., and English distilled bud oil is now offered at 55s.

COD-LIVER.—B.P. is 10s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

DILL. — B.P. English-distilled quoted at 60s. per lb. Imported oils are offered at from 30s. to 46s. per lb., as to origin.

EUCALYPTUS. — Drum lots of 70 to 75 per cent, eucalyptol on the spot are 4s. 9d. per lb., and 80 to 85 per cent., 5s. 3d.

FENNEL.—Spanish sweet on the spot is quoted from 9s, 6d, per lb.

GARLIC.—English is from 55s. to 60s. per oz.

 English-distilled oil is from GINGER. 120s. per lb. Imported oils are available at from 65s. per lb.

LEMONGRASS.—Firm. East Indian is now 10d. per lb. on the spot and 8s. 9d., c.i.f., for shipment.

LIME. — Supplies of West Indian distilled are offered from 45s. to 50s. per lb. on the spot.

ORIGANUM.—In original containers the price is 13s, to 14s, per lb.

PEPPERMINT. — Arvensis: about 19s. 6d. per lb., spot and 18s. 4½d., c.i.f., February-March shipment: Brazilian (45 per cent.), 16s. spot; forward, 15s., c.i.f. paid but recent offers difficult to obtain. Italian "Mitcham" type oil is 52c. 6d. per lb. for best quality on the 52s. 6d. per 1b., for best quality on the spot.

PETITGRAIN. — Paraguay on the spot is 18s. per lb., and for January shipment is 16s. $10\frac{1}{2}$ d., c.i.f.

PIMENTO. — English-distilled berry is nominal with imported at 55s. Rectified leaf (imported), 25s.

PINE.—Pumilionis on the spot is from 6s. per lb.; sylvestris, 9s. Siberian (abietis), 9s. 6d.

ROSEMARY. — Spanish oil on the spot about 5s. 9d. per lb.. duty paid, for B.P. quality,

RUE.—Spot offers are from 12s. 6d. per

SAGE.—Spanish is offered at from 9s. 6d. per lb. spot.

Sandalwood. — Mysore is 70s. per lb. for 7 x 25-lb, tins.

SPEARMINT.—Offers of B.P.C. quality are from 57s. 6d. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

VETIVERT. — Bourbon in original drums on the spot is 92s, 6d, per lb.

TRADE MARKS

From the "Trade Marks Journal," January 13 For all goods (5)

KINETRAST, 722,611, by Bykgulden Lomberg, Konstanz, Germany. Chinese characters meaning "Precious Sword" Brand Dettol, 722,998, by Reckitt & Colman, Ltd., Hull. TETRALGIN, 723,080, by Clinical Products, Ltd., Richmond. ANIZOT, 724,176, by James Noel-Davies, Wrexham,

For borax and boric acid (5)

Device of buffalo, 823,831, by Clifford Christopherson & Co., Ltd., London, W.1.

For sanitary knickers (5)

SANIBRIEFS, 724,156, by Cuxson, Gerrard & Co., Ltd., Oldbury.

For razors, safety-razor blades, and nail clippers (8)

WILKINSON SWORD, B704,858, by Wilkinson Sword Co., Ltd., London, S.W.1.

For pharmaceutical preparations (5) ELFEENROSE, 722,730, by John Alan East,

For analgesics containing bromine (5)

BROMPIRIN, 723,710, by Clinical Products. Ltd., Richmond.

From the "Trade Marks Journal," January 20

For mixtures of penicillin, mycelium and sphagnum peat for use as soil conditioning agents and fertilisers (1)

HUMUCILLIN, 722,165, by Sea-Borne Trading Co., Ltd., London, W.C.1.

For agricultural and horticultural chemicals and fertilisers (1)

KAYLAMON, KAYNAMON. KAYNAM. 724,401-03, by Imperial Chemical Industries, Ltd., Lonodon, S.W.1.

For soap in bar, tablet or stick form (3) TIP, 718,233, by C. Hartung Kommanditgesellschaft, Saarbrucken, Germany.

For non-medicated toilet preparations (3) EGOSYL, 720,851, by Maria Hornes, Ltd., London, W.l. Device of house, 723,308, by J. C. & J. Field, Ltd., Amersham, Bucks. CONVOY, 724,886, by Goya, Ltd., London,

W.1. For detergents (3)

DEOSOL, 724,540, by Deosan, Ltd., London, N.7.

For infants' and invalids' foods and dietetic foods (5)

B & P and device of corn cob, B703,732, by Brown & Polson, Ltd., London, W.C.2.

For medicated preparations (5)

EGOSYL, 720,852, by Maria Hornes, Ltd., London, W.1.

For pharmaceutical preparations (5)

THYNENE, B710,183, by Le Brasseur Surgical Manufacturing Co., Ltd., Birmingham. NETR1N, 720,650, by J. R. Geigy, S.A., Basle, Switzerland, MILKAVIT, 722,580, by Comm. Venn, Trouw & Co., Amsterdam, Holland. GANLIN, 722,848, by Gedeon Richter (Gt. Britain), Ltd., London, N.W.5. SEDANDRIN, 723,513, by Clinical Products, Ltd., Richmond, SULMEZIL, 724,085, by Imperial Chemical (Pharmaceutleals), Ltd., don, S.W.1. PLIMASINE, VIONACTANE, 724,360-61, by Ciba, Ltd., Basle, Switzerland. SEPRULES, 724,443, by Evans Medical Supplies, Ltd., Liverpool.

PRINT AND PUBLICITY

Advertising Campaigns

St. Andrew Mills, Ltd., 34 St. Andrew Road, London, E.17: Handy-Andies, Andrex toilet tissue. In big circulation journals.

CELLUCOTTON PRODUCTS, LTD., London: Kleenex tissue handkerchiefs. In Daily Express, January 28, and in national Press and women's magazines.

ARKINSONS, LTD., Curzon Street, Burnley, Lancs; Kilkof and Kilkof Kones. Extensive PARKINSONS, national advertising.

Energen Foods Co., Ltd., Energen Works, Bridge Road, Willesden, London, N.W.10: Energen foods. Campaign in Hampshire, Wiltshire and Dorset.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, February 1

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, the public library, Beckenham, Kent, at 8 p.m. Mr. H. Steinman (a member of Society's Council) on "Current Events,"

Tuesday, February 2

GLASGOW PHARMACY CLUB, Reid's tearooms, 34 Gordon Street, Glasgow, at 7.30 p.m. Whist drive. Tickets from Mr. W. Peebles, 110 Springfield Road, Glasgow, S.E.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, Middlesex, at 7.45 p.m. Dr. G. I. M. Swyer on "Hormones used in Endocrinology."

READING BRANCH, PHARMACEUTICAL SOCIETY, Board Room, Thorn Street, Reading, at 7,30 p.m. Mr. T. C. Denston on "The British Pharmacopæia."

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION, and SOUTH-EAST METROPOLITAN BRANCH, New Cross Inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Mr. H. E, Chapman on "Price Maintenance and the Monopolies Commission.

Wednesday, February 3

Norwich Branch, Pharmaceutical Society, assembly house, Theatre Street, Norwich, at 7.15 for 7.45 p.m. Film show by courtesy of Imperial Chemical (Pharmaceuticals), Ltd.

Thursday, February 4

HULL CHEMISTS' ASSOCIATION AND BRANCH, New

York ballroom, Hull, at 8 p.m. Supper and dance.

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCI-ETY, St. George's Hotel, Margate. Supper dance. Tickets and further information from Mr. Kenneth J. McKeand, 188 Northdown Road, Margate, Kent.

WIMBLEDON PHARMACISTS' ASSOCIATION, Town Hall, Wimbledon, at 7.45 p.m. Lecture demonstration by Mr. R. Hawksworth (Max Factor Hollywood and London (Sales), Ltd.) on "The Art of Colour Harmony in Make-up,

Friday, February 5

EXETER BRANCH, PHARMACLUTICAL SOCIETY, assembly rooms, South Street, Exeter, at 7.30 p.m. Mr. H. Gayton (ch ef planning officer, Exeter city council) on "National and Local Town Planning,'

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Y.W.C.A. Jounge, 18 Slater Street. Liverpool, at 7.15 for 7.45 p.m. Mr. J. L. Pyke (a Birkenhead jeweller) on "Diamonds,"

SOCIETY OF COSMETIC CHEMISTS, Royal Society of Tropical Medicine and Hygiene, 26 Portland Place, London, W.1, at 7 p.m. Professor W. D. Wright on "Colour and Colour Vision."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Lambeth Town Hall, Brixton Hill, London, S.W.2, at 7.45 p.m. Dr. H. C. Stewart (reader in pharmacology, University of London) on "Antihistamine Drugs and their Limitations."

PRICE CHANGES

9 R 1 5 R

vanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent. A --- Advanced:

ALLEN & HANBURYS, LTD. (from January 21)

		Each	
Penicillin	oral tablets,		
	100,000 i.u., 10	2 6 3	9
	100	20 0 30	0
	200,000 i.u., 10	2 11 4	41
	100	24 0 36	0

J. BIBBY & SONS, LTD. Cidal cream shampoo

IMPERIAL CHEMICAL CALS), LTD. (PHARMACEUTI-

Doz. oral tablets, 200,000 i.u., 10 100 $\begin{array}{ccc} 35 & 0 \\ 288 & 0 \\ 80 & 0 \end{array}$ 500,000 i.u., 10

JOHN MORRELL & CO., LTD. Red Heart dog food, dog food, 8-oz. tin 16-oz. tin

SMITH & NEPHEW, LTD. (from February 1)

· ·	E	ach		
Paramisan sodium, powder,				
No. MS1, 100 gm,	10	5	R	
	20	6	R	
MS5, 500 gm.	37		R	
	66		R	
	20		R	
	47		R	
MS5K, 500	79		R	
	8		R	
MS5TX. 500	28	6	R	
granules, No. MS3G,	20			
300 gm.	22	6	R	
ampoules, No. MS106,			11	
6 x 10 mils	6	0	R	
MS106P, 6 x 10 mils	7		R	
Pycamisan 25 cachets,	•	U	**	
No. 25PS1, 100	22	Ω	R	
25PS5, 500	89		R	
Pycamisan 33 cachets,	09	U	Λ	
	22	0	R	
No. 33PS1, 100	92			
33PS5, 500 Pycamisan 50 cachets,	92	U		
	22	0	D	
No. 50PS1, 100	23		R	
50 PS5, 500	96	D	K	
Pycamisan PHI0 cachets,	• •		-	
No. 10PS1, 100	18	Ų	R	
10PS5, 500	68	3	R	
Pycamisan PH20 cachets,		-	73	
No. 20PS1, 100	17	3	K	
20PS5, 500	66	3	R	

P.A.T.A. PROTECTED LIST WILLIAM EDWARDS & SONS

Roche's embrocation* 4 11 A

NEW PRODUCTS AND PACKS ABBOTT LABORATORIES, LTD. Erythrocin, 25 x 1-gm. tablets

BAYER PRODUCTS, LTD.

Avertin 100 m.ls

Price to hospitals is 80s. One 10-mil bottle of congo red is included with the pack.

COLEMAN & CO., LTD. Vitacup 6-oz. 1 101

GLAXO LABORATORIES, LTD. Benapen aqueous suspen-sion, 10 x 1-c.c. vials 12 0

54 0

ELI LILLY & CO., LTD. llotyc.n erythromycin tab-lets 24 MEDO CHEMICALS, LTD.

Each Corvzomed tablets 0 4 0 20 45 5 18 39 Hypertensan tablets 12 26 4 19 Insomnol elixir 28

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD.
Largactil tablets, 25 mgm.

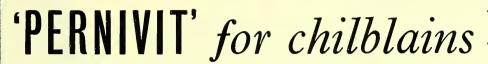
12 6 110 0 2-c.c. ampoules, 2.5 per 10 cent., 21 93 0 5-c.c. ampoules, 0.5 per cent., 10 27 6

TRUFOOD, LTD.
Thick bone broth beef and veg. broth with

WESTMINSTER LABORATORIES, LTD, Senokot*, 6-oz. bottle 4 0 7

EVAN WILLIAMS CO., LTD.

Liquid lanolin shampoo 1 6



Every year, more and more chilblain sufferers discover Pernivit. Both for the treatment of chilblains and for their subsequent prevention, Pernivit has been remarkably successful. Available in display cartons each containing six bottles.



THE BRITISH DRUG HOUSES LTD. LONDON N.



Prvt/T/7

Another best-seller.

REAT NEWS! Here's yet another GREAT NEWS: Table Street Selling Certainty from Maw's - obtainable as always "from chemists only" — the Dinky Feeder. Whether a baby is naturally fed or not, the unique Dinky Feeder is a boon from birth right through babyhood.

The Dinky Feeder is the ideal way of giving orange-juice, medicine or a soothing drink. A unique miniature feeder and pacifier - all in one!



Retail price, in carton complete with cleaning brush,

One dozen, in attractive display outer,

S Maw Son and Sons Limited Barnet England

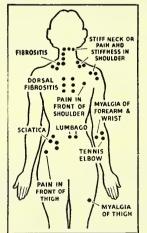
Fastest turnover makes Lloyd's

Cream!

the most profitable **Adrenaline**

NOT ONLY IS LLOYD'S the fastest-selling Adrenaline Cream, it is also one of the biggest selling of all rheumatism treatments. This makes Lloyd's the most profitable Adrenaline Cream you can stock. REPEAT SALES SHOW also that Lloyd's Adrenaline Cream does what it claims to do-it does relieve rheumatic pain. Persistent, sincere advertising is telling more and more rheumatism sufferers of this still new remedy. These are good reasons for examining your stocks to see whether you have sufficient to take advantage of this continuing demand.

LLOYD'S ADRENALINE CREAM



THIS DIAGRAM is well known to the public through continuous featuring in Lloyd's advertising. Showing treatment areas for rheumatic pain, it arouses real interest in rheumatism sufferers and brings them into the shops to buy Lloyd's.

ATTRACTIVE DISPLAY MATERIAL can be obtained free from us. Counter and window displays tie in with advertising to boost sales-try them yourself. Lloyd's Adrenaline Cream retails only through chemists, at 7/- and 5/- in jars, and at 3/- in

All enquiries and requests for display material to

Howard Lloyd + Co. Ltd. SALES OFFICE: II WATERLOO PLACE, LONDON, S.W.I

ORDER NOW FROM YOUR WHOLESALER



Even the best of health is not impregnable. But those suffer worst and longest whose resistance has already been worn down by the rigours of winter. A good tonic helps to restore wasted reserves and resilience in the face of disease. If influenza strikes,

it will do much to curtail the characteristic wretchedness of convalescence.

'Neuro Phosphates' ('Eskay') is a 'good tonic'. Its reputation for excellence rests on the longcontinued confidence of the medical profession.

Neuro Phosphates'

Issued in 8-oz. bottles

('Eskay')

Pharmaceutically elegant Therapeutically effective Of refreshing green colour Eminently palatable Widely prescribed

MENLEY & JAMES, LIMITED, COLDHARBOUR LANE, LONDON, S.E.5 for Smith Kline & French International Co., owner of the trade marks 'Neuro Phosphates' and 'Eskay'
NT122

Only
Wisdom
has
Flextron*



**
Flextron
combines the
liveliness of
natural bristle
with the long life

of nylon

THE WISDOM FLEXTRON BRUSH is presented in a rigid all-plastic V-pack with transparent case and a white platform. Three textures—medium, hard, extra hard. Sold for 2/3d., giving you a very generous margin. Full scale national advertising is now appearing. Order through your wholesaler.



monsanto for fine chemicals

with a fine reputation ...

Monsanto is one of the largest producers and suppliers of acetyl salicylic acid BP to the world's manufacturers.

Monsanto's salicylate products are in plentiful supply, with immediate delivery assured. Acetyl salicylic acid is available in powder, crystal or granular form (ASPIRGRAN*). ready for direct tabletting. Other pharmaceutical chemicals include:—

Methyl Salicylate BP, Sodium Salicylate BP, Salicylic Acid BP, Salicylamide, Salicylic Acid (Technical), Sodium Benzoate BP, Phenol BP, Phenolphthalein BP, Phenacetin BP, Benzoic Acid BP, P.C.M.X., P.C.M.C., Cresantol*-15, Cresantol*-3, D.C.M.X.

Write for full information.

(*Registered Trade Marks)

MONSANTO CHEMICALS LIMITED,
Victoria Station House,
Victoria Street,
London, S.W.1.



In association with:— Mansanta Chemical Company, St. Lauis, U.S.A. Mansanta Canada Ltd., Mantreal. Mansanta Chemicals (Australia) Ltd., Melbaurne. Mansanta Chemicals of India Ltd., Bambay. Representatives in the world's principal cities.





KORKALITE MOULDED OR ALUMINIUM CAPS

AVAILABLE FROM STOCK





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UNITED GLASS BOTTLE MANUFACTURERS LTD

8, LEICESTER STREET, W.C.2 · Telephone: GERRARD 8611 (18 Lines) Telegrams: UNGLABOMAN, LESQUARE, LONDON

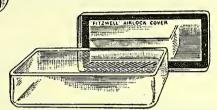
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WHOLESALE SURGICAL IN

A. SEARLE & C.

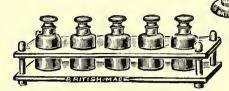
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Container



Tray with Fitzwell Air Lock Cover

Cheatles Forceps Jar in Glass or Chrome Plated



Medicament Bottle Stand

A. SEARLE & CO.

SERLANCO HOUSE, 245 St. JOHN ST., CLERKENWELL, LONDON, E.C.I

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Makers of Fine Shop Fittings

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FOR OVER 30 YEARS

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HALEWOOD CHEMICALS LIMITED

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May we quote you for-

GLAUBER SALTS B.P.

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NEEDLE CRYSTALS, MEDIUM, EXSICCATED.
ALL B.P. GRADES CONFORM TO 1953 STANDARD.
ALSO COMMERCIAL, BATH, & VETERINARY QUALITIES.

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TELEGRAMS:

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Show 'Elasto' — It Sells on Sight! *

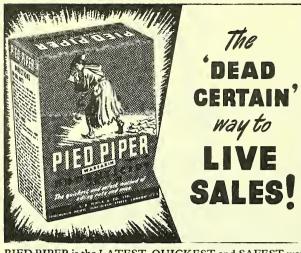


ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

★ Navel Display Stand free on request
NEW ERA LABORATORIES LTD.
CECIL HOUSE · HOLBORN VIADUCT · LONDON



D., GREAT WEST ROAD BETTINGS LUCOZADE LTD., GREAT WEST ROAD, BRENTFORD, MIDDX.



PIED PIPER is the LATEST, QUICKEST and SAFEST way to kill rats and mice. Nationally advertised—big sales are assured. Your discount is 33½%. Retail prices 2/6, 4/- and 7/-.

MORE EFFECTIVE! PIED PIPER is the only ready bait containing GENUINE DETHMOR-WARFARIN as discovered by Wisconsin University, U.S.A.

PIED PIPER

WARFARII

A product of S. B. Penick & Co. Ltd

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ASPIRIN B.P. "FRE-FLO"
SALICYLIC ACID B.P. & TECH.
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VANILLIN 100%

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THE REGNA CASH REGISTER CO.
Proprietors: The Joeli Safe Co. (London) I imited
Telephone: TRAfalgar 3718

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Retail Price NOW ONLY

From wholesalers or direct from sole manuficturers:
FERRIS & CO. LTD · BRISTOL 2

DAILY TELEGRAPH . THE OBSERVER



Our chemicals are of the finest quality obtainable and are manufactured entirely

in the U.K. under the supervision of

CITRIC ACID

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(GLUCONIC ACID ANHYDRIDE)

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skilled chemists.

THREE MILL LANE · BROMLEY-BY-BOW · LONDON · E.3

ESTABLISHED 1870

Telegrams: KEMBALL BOCHURCH, LONDON,

A service to support your skill a care in meeting the exacting needs of N.H.S. dispensing

- DRUGS & GALENICALS
- PENICILLIN PREPARATIONS
- OCULENTA
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You can rely on Thornton & Ross Ltd., to deliver goods—of unimpeachable standard and accuracy—with

the utmost regularity

Have any of your customers been to Scotland?

They're certain to know all about



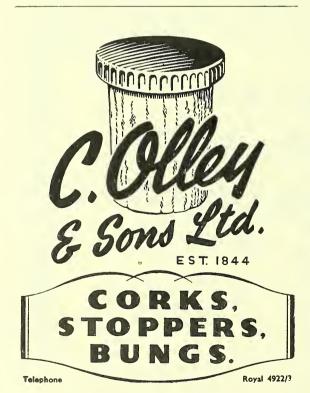
the Powder that's a household name!

'Askit' is Scotland's leading Proprietary Medicine for the safe, speedy relief of Headaches, Neuritis Rheumatic and Nerve Pains.

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ASKIT LTD: MANUFACTURING CHEMISTS: GLASGOW N

and stocked by
ALL LEADING WHOLESALE HOUSES THROUGHOUT BRITAIN



CAMPERDOWN STREET LONDON, E.I.

GETTING DOWN TO DETAILS

The Detail Strip on a Gledhill (Type A.D.) Cash Register is a unique feature providing a permanent record of each sale and permitting the classification of all transactions. It is a witness to the assistants' accuracy, enables the proprietor to check every single transaction and gives an accurate mechanically added sub-total or grand total at any period.

A fully informative illustrated Catalogue of Gledhill Cash Registers will be sent on request. There is a model specially designed for your business

BRITISH MADE FOR 60 YEARS



G. H. GLEDHILL & SONS LTD

The shaving brush with the TWO YEAR guarantee ...

We cordiolly invite you, when in London to visit our new showrooms ot:—

92 Regent Street, London, W.I (one minute from Piccodilly Circus) and see our ronge of 250 Pure Bristle and Pure Badger Shoving Brushes to suit oil markets



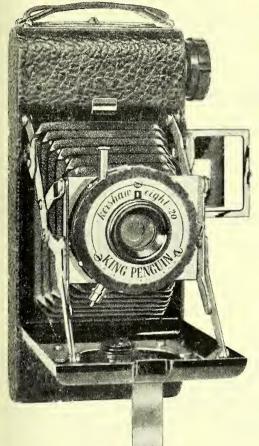
SHAVING BRUSHES
PURE BADGER AND PURE BRISTLE



Write for illustrated brochures and price lists

THE PROGRESS SHAVING BRUSH CO. LTD.
Mottram St., Stockport, Eng. 92 Regent St., London, W.I

Sell value plus*



So many 'expensive equipment' features make the popular-priced Kershaw King Penguin the finest folding camera value on the market today.

Synchronised for flash

Shutter; instantaneous, and bulb for longer exposures. Smooth action release.

Fully self-erecting

Press the catch and the camera is fully open, ready for action.

High-quality Kershaw Lens

Two self-positioning apertures — F/11 and F/16.

Sports-type viewfinder

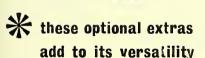
Instant clear pictures with eye level, direct-vision viewfinder.

Tripod Fitting

British and Continental baseboard bush for tripod and flash-gun attachment.

Ultra-smart appearance

The body is covered in richly grained black leatherette.



- * Portrait attachment for close-ups
- * Lens filter for cloud effects, etc.
- :: Smart carrying case for Camera protection and easy portability



King Penguin

 $3\frac{1}{4}$ " x $2\frac{1}{4}$ " folding camera

only £4.19.10d (inc. P.T.)

The Kershaw King Penguin is the finest camera in its class. Write today for sales literature and colourful display material.

G. B. EQUIPMENTS LTD.

Photographic and Optical Division

Dept. CD/1/54, Mortimer House, 37-41 Mortimer St., London, W.1. Museum 5432





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Ribbed Oval ..

The Beatson Ribbed Oval carries on the tradition of the increasingly popular Beatson Medical.

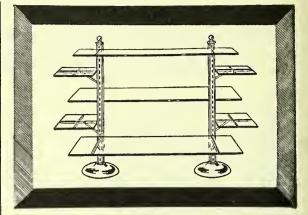
Available in a wide range of sizes, both Cork Mouth and Screw Neck, with either White Enamelled or Black Bakelite Caps.

"The Sign of a Good Bottle"

BEATSON, CLARK & CO. LTD.

GLASS BOTTLE MANUFACTURERS

ROTHERHAM (Est. 1751) YORKS



HOKON DISPLAY UNIT

With this Hokon display unit you can have a new, striking display every day if you wish. It takes only a matter of minutes to adjust and re-arrange, and yet each new presentation of your stock will capture more customers' attention and interest. Ideal for both window and interior display.

Display Unit (Figure 24, as illustrated) 3ft. high, with brackets. Self-locking, instantly adjustable.

In Brown Bronze £12.17.0 In Chrome-like finish £14.7.0
Prices include Glass.

CHURCH & CO. (FITTINGS) LTD

16 The Oracle, Minster Street, Reading

Glasgow Showroom: 77 Queen Street, C.1. Phone: HAL 4429



BC73

First big opportunity of 1954! ANOTHER

BENAY BONUS

Available January 11th to February 22nd

The great success of our Bonus Offer last autumn, followed by the ever-mounting success of the increased Bemax advertising in Radio Times and the Provincial Press, enables us to make this further Bonus Offer—the first in 1954! Get your order in early. Make sure of your Bonus NOW!



PARCELS		STANDARD LIST PRICE	QUANTITY TERMS		BONUS TERMS	PROFIT
BX.I	6 dozen × 1/9 size	99/-	96/-	* SPECIAL	88/-	38/-
BX.2	3 dozen × 3/- size	85/6	81/9	BONUS	75/-	33/-
BX.3	$l\frac{1}{2}$ dozen × 5/6 size	78/9	75/-	DISCOUNT	68/9	30/3
BX.4	2 dozen \times 3/- size $\frac{1}{2}$ dozen \times 5/6 size	83/3	79/6	equivalent to 13 to the dozen	72/11	32/1
BX.5	I dozen \times I/9 size I $\frac{1}{2}$ dozen \times 3/- size $\frac{1}{2}$ dozen \times 5/6 size	85/6	81/11	DEDUCTED FROM INVOICE	75/-	33/-

[★] The above Bonus discount is additional to the existing trade discount as well as the discount allowed on quantity orders.

BEMAX

has enjoyed the confidence of the

Medical Profession for over 26 YEARS

If you have not yet received details of the Bonus Offer write at once for full particulars to

VITAMINS LTD., 23 UPPER MALL, LONDON, W.6

To remind you what to do.

Send in the order form between January 11th and February 22nd. Use the display material sent with goods for your Window and Counter for at least 14 days during the Bonus period.

But remember, too.

it always pays to display BEMAX



Sales going UP PRICE COMING down

cidal cream shampoo is going to celebrate the New Year with a sales-stimulating price cut — from 1/5 to 1/3

CIDAL CREAM SHAMPOO, like the famous Cidal Soap, contains Hexachlorophene, the gentle but deeply effective germicide. Because of Hexachlorophene's special properties, CIDAL CREAM SHAMPOO ensures a scrupulously clean and healthy scalp, the surest safeguard against dandruff. At the same time, Cidal's rich, creamy lather keeps the hair soft, and gleaming with good looks. No wonder CIDAL CREAM SHAMPOO is the favourite with so many families already—and thousands more will be asking for it at the new low price

REMEMBER —
CIDAL CREAM SHAMPOO
CARRIES EXCEPTIONALLY
GENEROUS TRADE

TERMS

Write for details to: The Sales Department,

J. BIBBY & SONS LIMITED,
KING EDWARD STREET, LIVERPOOL 3





N.V. SOCIETEIT VOOR
CHEMISCHE INDUSTRIE

'KATWIJK"

KATWIJK - AAN - ZEE HOLLAND

Producers of:

CYCLOBARBITONE (ACID & CALCIUM SALT)
PENTAMETHYLENETETRAZOL

(LEPTAZOL. BP)
DIPHANTOINE (PURE, SODIUM, CALCIUM)
SULPHA drugs

Londan Agents:

GREYER, BRECHEISEN & CO., Ltd.
BUSH LANE HOUSE, CANNON STREET
LONDON, E.C.4. Telephone: MAN 9030

Bombay Agent:

STANDARD DRUG & CHEMICAL CO., 174 Hornby Road, Fort, Bombay

Calcutta Agent:

H. D. NAG, 36 Beniatola Lane, CALCUTTA

Madras Agent:

THE DOLLAR CO., 337 Thambu Chetty St., G.T. MADRAS



FRYER & CO. (Nelson) LTD., NELSON, LANCS.

ESTABLISHED 1793

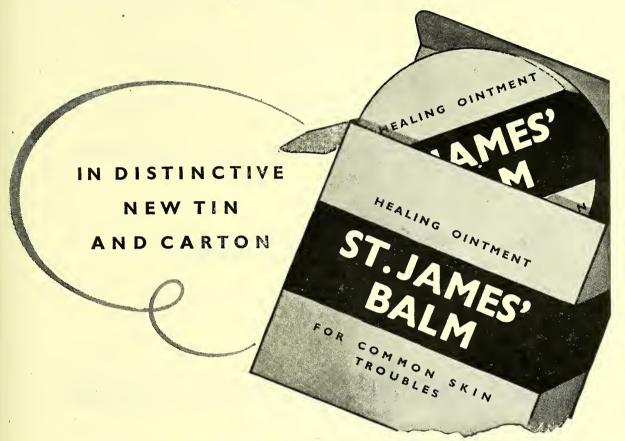
ATKINSONEBARKERS INFANTS' PRESERVATIVE

The Infants' Medicine of 150 years' standing

For teething and digestive troubles

ROBERT BARKER & SON LTD

The time-tested FAMILY OINTMENT



ST. JAMES' BALM

The TRIED and TRUE remedy

ST. JAMES' BALM is now presented in a always, when a proved skin healing agent more modern style. The formula of the is needed. ointment itself, incorporating the broth filtrates of the microbes common to most skin infections, has withstood the test of time and is still unexcelled as a treatment for numerous skin complaints. Your customers can rely on ST. JAMES' BALM as faithful but ever-increasing in number.

CARGREEN ROAD,

We are proud that, over the years, the extensive sales of ST. JAMES' BALM have been built up almost exclusively on personal recommendation. Be sure to carry adequate stocks. Users of our ointment are not only

MEDICO-BIOLOGICAL



LABORATORIES LTD.

SOUTH NORWOOD,

LONDON, S.E.25

Epilepsy...

Total or partial relief in a high percentage of patients suffering from

- * Grand Mal Epilepsy
- * Jacksonian Seizures
- * Psychomotor Equivalents

is made possible by the use of

MESONTOIN

Each tablet contains 0.1g. Methoin B.P.

Average dosage: 2-6 tablets daily

or

HYDANTAL-SANDOZ

Each tablet contains 0.1g. Methoin B.P. and 0.02g. Phenobarbitone B.P.

Average dosage: 2 4 tablets daily



Literature and samples available on request

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LONDON, W.1

Supplement

28 ESSEX STREET, STRAND, LONDON, W.C.2

COMPANY ORRIDGE &

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Tel.: TEMple Bar 9212/3 & 6340

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BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d, per word.

AN EXCEPTIONAL opportunity occurs for a pharmacist to purchase high-class drug store at a nominal figure. Large built-up area in Kent. Genuine inquiries only. A. S. Wolmark, Ltd., 231 Walworth Road, London, S.E.17. C 4846

ESTABLISHED 1941, fully equipped drug store, High Street, Godalming, s.a.v. Two rooms over shop. Excellent position, £95 p.a. to June 1959, £105 p.a. to June 1966, Price for lease, Showcases, counter, fluorescent lights, fixtures and fittings, £1,500, H. Goldman, 69A High Street, Godalming, Surrey. Tel.: 720.

LIVERPOOL, on modern Childwall Fiveways Shopping Site, 169 Queens Drive. Good opening for chemist. Other multiple trades represented. Builders Pierce Williams & Son, 90-94 Selborne Street, Liverpool, 8. Phone: Royal 8681.

MUST BE SOLD to clear estate. Drug stores. Suitable for conversion to pharmacy. Situated on main road. Bacup, Lanes, Double-fronted shop, nicely fitted with showcases, counters, drug drawers, dispensing screen and shelves, etc. Very clean stock, mostly packed lines. Very old established. Living accommodation. Low rateable value. First reasonable offer. Box C 4839.

WELL-EQUIPPED factory manufacturing beauty preparations in South West London for immediate disposal. Full details from Box

APPOINTMENTS

18/- per half-inch (min.) and pro rata.
Box 2/-

ANCOATS HOSPITAL,

MANCHESTER, 4

Assistant in Dispensing
required. Whitley Council conditions of service. Applications stating age and experience, together with the names and addresses of two referces, should be sent to the undersigned.

JOHN H. DAFFORNE,

General Superintendent.

C 643

PHARMACIST AND MEDICAL
STOREKEEPER
required by the
WESTERN PACIFIC HIGH COMMISSION
for service in the
GILBERT AND ELLICE ISLANDS
for 30 months in first instance with prospect
of pensionable employment or gratuity at rate
of £100 a year. Salary, etc., according to
experience in scale equivalent to £657 rising to
full salary. Arrangements exist for preserving
National Health Service Superannuation rights
in approved cases. Candidates must be members of the Pharmaceutical Society of Great
Britain with experience of storekeeping and
clerical work. Write to the Crown Agents, 4
Millbank, London, S.W.I. State age, name in
block letters, full qualifications and experience
and quote M3A/34048/CD. C 6474

CRUMPSALL HOSPITAL, MANCHESTER, 8 (Adult General, 1,225 Beds)

Pharmacist
Applications are invited from Pharmacists for the post of Pharmacist at this Hospital, Salary and conditions of service as laid down by the Whitley Council.
Applications

Whitley Council.

Applications, giving age, nationality, details of experience, together with the names and addresses of two referees, are to be sent to the undersigned as soon as possible,

A. T. SAMPSON, Dept. "C.D.",

Group Secretary,

C 176

DARTFORD HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist(s)

required during four months from May 31, 1954. Salary £14 14s, a week, Accommodation if required. Appl cations with full particulars to the Group Secretary, The Bow Arrow Hospital, Dartford, Kent. C 6464

HAROLD WOOD HOSPITAL

Pharmacist

required. Salary scale £450 x £25—£575 p.a. Whitley Council conditions.

Apply to Group Pharmacist, Harold Wood Hospital, Harold Wood, Essex (Tel.: Ingrebourne 2881) from whom further details may be obtained.

C 6475

KING'S LYNN AREA HOSPITALS MANAGEMENT COMMITTEE

Pharmacist

Pharmacist
Applications are invited for the appointment of Fharmacist, responsible to the Group Pharmacist at the WEST NORFOLK & KING'S LYNN GENERAL HOSPITAL, KING'S LYNN, from whom further particulars may be obtained. Modern, well-equipped department. There are prospects of promotion to Senior Pharmacist. The appointment is subject to the National Health Service Superannuation Regulations.

lations.
Applications, as soon as possible, to the Group Secretary, St. James' Hospital, King's Lvnn.

C 6457

LINCOLN NO. 1 HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist or Pharmacist

Senior Pharmacist or Pharmacist
Applications are invited for the post of Senior
Pharmacist or Pharmacist at the Lincoln
County Hospital (Category III), This hospital
is the centre for all the pharmaceutical work
of the Group, which includes eleven other units
and a good general experience can be gained
here. The salary and conditions of service will
be in accordance with the Whitley Council
decisions. decisions.

Applications, stating age, qualifications and experience together with names for reference should be forwarded to the undersigned as soon as possible.

R. W. HOWICK, Group Secretary.

MOORFIELDS WESTMINSTER & CENTRAL EYE HOSPITAL

(Category V)
Senior Pharmacist
Appl.cations are invited for the post of Senior Pharmacist at this Hospital, Salary in accordance with Whitley Council Scale (£525 x £25—625), plus London Weighting and £25 p.a. for recognised higher qualification.
Applications, with names of two referees should be addressed to the Chief Pharmacist, Moorfields Westminster & Central Eye Hospital, City Road, London, E.C.I. C 6471

MOORFIELDS WESTMINSTER & CENTRAL EYE HOSPITAL

CENIRAL EXE HOSPITAL (Category V)

Pharmacist

Applications are invited for the position of Pharmacist at this Hospital, Salary in accordance with Whitley Council Scale (£450 x £25 – £575), plus London Weighting and £25 p.a. for recognised higher qualification. Applications, with names of two referees should be addressed to the Chief Pharmacist, Moorfields Westminster & Central Eye Hospital, City Road, London, E.C.1. C 6472

MOORFIELDS WESTMINSTER & CENTRAL EYE HOSPITAL

CENTRAL EYE HOSPITAL
(Category V)
Assistant in Dispensing
Applications are invited for the position of
Assistant in Dispensing at this Hospital. Salary in accordance with Whitley Council agreement, together with London Weighting, Applications should be addressed to the Chief Pharnacist, Moorfields Westminster & Central Eye
Hospital, City Road, London, E.C.1, together
with the names of two referees. C 6473

OLDCHURCH HOSPITAL,

ROMFORD

Assistant in Dispensing required at Oldchurch Hospital, Applicants must hold the Certificate of the Society of Apothecaries of London, Salary and conditions of service in accordance with National Agreement.

ment.
Apply in writing to the Secretary, Romford Group Hospital Management Committee, Old-church Hospital, Romford, stating age, qualifications, occupation, experience and names of two persons for reference.

THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1 Pharmacist

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£575) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist.

THE LONDON HOSPITAL,
WHITECHAPEL, E.1
Pharmacist
Vacancy for above. Applicants must be registered Pharmacists. Salary scale £450 (age (23) x £25 to £575 according to previous experience and service. Dining room facilities available.
Write Secretary. Write Secretary.

Appointments—Continued

ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10

GREENWICH, S.E.10

Deputy Chief Pharmacist

Applications are invited for the post of DEPUTY CHIEF PHARMACIST in a busy well-equipped pharmaceutical department at the above hospital. Applicants must have had wide experience in a similar hospital, with a large out-patient department, and should be conversant with modern pharmaceutical techniques including sterilisation processes. Whitley Council salary and conditions. Detailed applications (incl. present salary) together with copies of not more than three recent testimonals should reach the Secretary, G. & D./ H.M.C., at the hospital as soon as possible.

C 6438

THE UNIVERSITY OF LEEDS

THE UNIVERSITY OF LEEDS

Rescarch Fellowships

Applications are invited for Imperial Chemical Industries, Ltd., Research Fellowships in Bacteriology. Biochemistry, Biomolecular structure, Botany (Plant Biochemistry and Biophysics), Chemical Engineering, Chemistry of Leather Manufacture, Chemotherapy, Colour Chemistry and Dyeing, Engineering (Civil, Electrical or Mechanical), Fuel and Refractories, Geology (including Geochemistry), Metalurgy, Mining (Selective Flotation and Geophysical Surveying), Pharmacology, Physics, Physiology or Textile Industries (Protein Chemistry and Wool Textile Engineering). The Fellowships will be of an annual value within the range £600-£900 a year according to qualifications and experience and will normally be tenable for three years, Further particulars can be obtained on request. Three copies of applications (one in the case of applicants from overseas), together with the names of two referees, should reach the Registrar, The University, Leeds, 2, not later than April 21, 1954.

C 6470

WARRINGTON GENERAL HOSPITAL (368 Beds)

Senior Pharmacist or Pharmacist

A Senior Pharmacist or Pharmacist is urgently required. The scale of salary for a Pharmacist is 4450 x £25 to £575, Senior Pharmacist £525 x £25 to £625.

The Department caters for four other Hospitals and is at present undergoing alterations. The post is interesting and offers scope for a Pharmacist with initiative and enthusiasm. Applications giving details of experience, etc., together with names of two referees should be sent to:—

H. L. BOOT. Group Secretary.

Warrington and District Hospital
Management Committee,
c/o General Hospital.

Warrington, Lancs.

C 6468

WEST MIDDLESEX HOSPITAL (Category V) (South West Middlesex Hospital Management Committee)

Pharmacist
required. Salary scale £450 x £25 to £575 plus
London weighting. Higher qualification allowance £25 p.a. Whittey conditions applicable.
Applications, stating age, qualifications and experience with names of two referees to Chief
Pharmacist, West Middlesex Hospital, Islemorth Middlesex. C 6450

WORTHING GROUP HOSPITAL MANAGEMENT COMMITTEE, WORTHING HOSPITAL, LYNDHURST ROAD, WORTHING, SUSSEX

Pharmacist

Pharmacist
Applications are invited for the post of Pharmacist (male or female) at the above Hospital. Salary and conditions of service in accordance with Pharmaceutical Whitley Council. Applications, stating age, qualifications, experience and present employment, with the names of two referees to be forwarded to the Hospital Secretary. retary.

A. V. OAKTON, Group Secretary. C 6443

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.

The engagement of persons answering these advertisements must he made through a Local Office of the Ministry of Lahour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

EDMONTON. There is an excellent opportunity for a Pharmacist with initiative as branch manager in the above area, Good salary and commission, payment for all rota duties. Permanency with promotion prospects and pension fund, Applications, giving details of experience and stating when free for interview, to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10.

HAYES, MIDDLESEX, Vacancy exists for an experienced branch managerial vacancy in this area. The business concerned is well-fitted with modern dispensary and has an excellent supporting staff. Preference will be given to a pharmacist who desires to make a career with a progressive organisation able to offer continued promotion in return for efficient service. There are excellent welfare and sickness benefits and the salary will be commensurate with modern trends and duties involved. Apply stating details and when available for an interview to Chief Pharmacist, Grange Road, Leyton, London, E.10. C 4801

KENT. Pharmacist to take charge of dispensary in busy retail pharmacy, Vacancy occurs March. Permanent post, Salary £15 per week. Superannuation scheme, House if necessary. Box C 4853.

MAIDSTONE. Qualified manager required, either sex, for one year. Apply with full particulars to Box C 4841.

MARBLE ARCH. Pharmacist required, MARBLE ARCH. Pharmacist required, pre-ferably with West End experience to manage nicely fitted branch with high-class dispensing connection and counter trade, surgical fitting room, etc. A salary commensurate with ex-perience plus commission will be paid to a suitable man. Apply giving details of experi-ence and stating when free for interview to Chief Pharmacist, London Co-operative Chem-ists, Ltd., Grange Road, Leyton, E.10, C 4855

NEWCASTLE-UPON-TYNE, Manager required for retail shop. Modern flat available in best residential area. Directorship given in company. Salary and share of profits, Apply accountants, 135 Sandyford Road, Newcastle-upon-Tyne.

QUALIFIED lady assistant required, general retail and dispensing, Convenient living accomretail and dispensing, Convenient from a modation, either furnished or unfurnished. Hours of duty by agreement. Arthur Pratt, 17 College Parade, Salisbury Road, N.W.6. Phone: Maida Vale 7108, (Nr. Brondesbury Park Sta-C 4864

QUALIFIED MANAGER required, either sex, for family business in Maidstone, Modern shop with up-to-date flat, No rota or Sunday duties, Permanency. Apply with full particulars to the Secretary, A. H. Clark (Maidstone), Ltd., 58-60 Tonbridge Road, Maidstone.

SOUTHAMPTON AREA. Unqualified assistant SOUTHAMPTON AREA. Unqualified assistant required for coastal pharmacy. Must be experienced in photography and capable of selling high priced cameras and accessories, projectors, recording machines, sound equipment, etc. This is a permanent position with good prospects and congenial working conditions. Hours 9 a.m. to 6 p.nn. Apply with full details of general and photographic experience to Box C 6447.

SOUTHGATE, N.14. Experienced pharmacist is required for branch managerial vacancy. Well-fitted shop with adequate supporting staff, substantial cash trade with good dispensing connection. Excellent salary and commission. connection, Excellent salary and commission, good promotion prospects. Accommodation available away from branch if required, Permanency with superannuation benefits. Apply with full details of experience stating when available for interview to Chief Pharmacist, Grange Road, Leyton, London, E.10. C 4800 UNQUALIFIED male assistant required for North-east London pharmacy. Capable all-round man, used to dispensing and counter. No rota duties. Salary £10 weekly, Land, 448 Kingsland Read, Dalston, E.8. Clissold 8211.

Kingsland Road, Dalston, E.8. Clissold 8211. C 4865
WORTHING, SUSSEX. Aston's have a vacancy for a young male pharmacist, preferably one recently qualified, for busy dispensary. Apply by letter giving age, experience, salary required and when available. C 4830
WORTHING, SUSSEX. Aston's have a vacancy for an unqualified keen counter assistant, male, aged 30-35 years, for their main shop at 25-27 Montague Street, good experience essential. Apply by letter giving age, experience, salary required and when available. C 4831
YOUNG LADY ASSISTANT required for general counter duties with thorough knowledge of toilet trade. Hours 9-6, Good salary for suitable applicant. Apply by letter giving details of experience to Garner & Pope, Ltd., 244 Haverstock Hill, Hampstead, N.W.3. C 4850

LOCUMS WANTED

LOCUM PHARMACISTS required for London and Suburban areas, long or short periods, February to October, Permanency at conclusion of tour if desired, Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 4857

TWO LOCUM PHARMACISTS are required for London and Suburban areas to complete relief managerial programme, The tour of duties will cover the months January to October with a permanency if desired at the conclusion. Salary and expenses basis, H, Warburton, Chief Pharmacist, Grange Road, Leyton, London, E.10, Telephone: Leytonstone 5671. LOCUM PHARMACISTS required for London

RETAIL (OVERSEAS)

A VACANCY EXISTS for a pharmacist (single man) for service in E, Africa with a company with retail branches in Nairobi, Dar-es-Salaam, Mombasa, Tanga, Arusha, Eldoret, Kampala, Kitale and Nakuru. Starting salary £810 p.a. including cost-of-living allowance, with three annual increments to £900 p.a. and four further annual increments to £1,100 p.a. Tours are for four years with annual local leave followed by home leave on full basic pay. Contract renewable by mutual agreement, Kit allowance and free passage both ways. Non-contributory pension plan now being introduced, Applicants must hold M.P.S. qualification of Great Britain or Northern Ireland. Apply, in writing, giving qualifications and experience to Box C 6384.

WHOLESALE

2 WOMEN MEDICAL REPRESENTATIVES required by ethical pharmaceutical house for medical-pharmaceutical representation in (1) North London and Home Counties; (2) Kent, Sussex, Hampshire, Previous experience desirable, but applicants must have nursing and medical knowledge, Training given, Car driver, Salary and expenses, Apply giving full particulars of age, experience, etc., in confidence to Managing Director. Box C 6477.

lars of age, experience, etc., in confidence of Managing Director. Box C 6477.

ALLEN & HANBURYS, LTD., Ware, Herts, require a young pharmacist for production work, previous production experience in aseptic pharmacy desirable but not essential, Salary commensurate with experience, Five-day week, superannuation, Applications in writing with details of age, qualifications and experience, to Personnel Manager.

C 6462

APPLICATIONS INVITED from representatives living in N. Midlands, and preferably experienced in selling to wholesalers, to take over valuable accounts and develop area. Position is permanent and offers considerable scope. Remuneration by salary plus commission and expenses. Write full particulars to Sales Manager, The Cannon Rubber Manufacturers, Ltd., Ashley Road, Tottenham, London, N.17.

CAMMUSSION REPRESENTATIVES with car

C 4852

COMMISSION REPRESENTATIVES with car wanted for internationally known toilet products also continental soap novelties, for allareas except London. Good commission and contribution towards car expenses. Write immediately stating connections and territory already covered. Box C 4845.

PHARMACIST for ONTARIO, CANADA

Keen - Aggressive

Keen — Aggressive
To be Assistant Manager in Retail Pharmacy (Reference and Photograph required) Salary £1,160 per annum. With good chance for advancement and increased salary when accepted by the Ontario College of Pharmacy which takes pprox. six (6) months for a British Pharmacist and twelve (12) months for a Pharmacist of N. Ireland. Apply:— Mr. S. Y. Marr, Standard Drug Limited, LONDON, Ontario, CANADA. C 4843

from the Single to the Complete Pharmacy OLD OLD STREET, LONDON.

Situations Open—Continued

BURROUGHS WELLCOME & CO., have vacancies for medical representatives in Lancashire and South-east England. Applicant must be pharmacist and have a wide and upto-date knowledge of modern therapeutics. Previous experience in detailing an advantage but not essential. The position is progressive and pensionable (contributory scheme), Application (by letter only) will be treated in strictest confidence, should give the fullest details regarding age and experience, and be addressed to The Manager, Home Sales Division, Burroughs Wellcome & Co., 183-193 Euston Road, London, N.W.I.

FOR LANCASHIRE (and perhaps Westmor-land, etc.). Representative with thorough know-ledge of wholesale drug trade, and good con-nection amongst retail pharmacists on this terri-tory. Must be experienced salesman. Excellent remuneration. Car provided. Write for inter-view, giving particulars. Apply Box C 6479.

view, giving particulars. Apply Box C 64/9.

FULL-OF-BEANS CHEMIST required by managing director of well-known electro-medical company, who is now interested in entering the proprietary medicine market. If you have ever wanted to escape into a thoroughly enjoyable and progressive atmosphere where you can work on your own initiative and help an exciting new enterprise to grow, please write to the Managing Director, Box 515, Erwoods, Ltd., 211 Piccadilly, London, W.1. C 6480

EXPERIENCED REPRESENTATIVE with live connections among retail and wholesale chemists required by manufacturers of proprietary lines. Salary, commissions, expenses. Apply giving age, experience, etc. Box C 6458.

INDUSTRIAL REPRESENTATIVE to call with first-aid appliances, dressings, drugs, plasters, instruments, on industrial establishments, and institutions. Must be experienced and car owner. Territory Greater London area. Apply with full particulars of experience to Biorex Laboratories, Ltd., 47-51 Exmouth Market, E.C.1. C 6481

LABORATORY ASSISTANTS, female, required, some experience of analytical and/or bacteriological control work preferable, Matric. or Inter. standard desirable but not essential. Five-day week. Canteen facilities available. Roussel Laboratories, Ltd., 843/7 Harrow Rd., N W.10.

MANUFACTURING CHEMISTS in East Yorkshire require man with manufacturing drug house experience including wet and dry counter, for general wholesale pharmaceutical works supervision. Permanent position with pension scheme for suitable man or woman. Full particulars including age, wage required, and copy references, to Box C 6433.

PHARMACIST for small proprietary medicine business. Write giving age and experience. Interview by appointment. George Eade, Ltd., 232 Goswell Rd., London, E.C.1, C 175

MANUFACTURING CHEMISTS in East Yorkshire require chemist for research laboratory. Pharmaceutical qualification. Experience in manufacturing an advantage. Progressive and permanent position for suitable applicant. Pension scheme available. Full particulars including age, copy references, salary suggested, in confidence, to Box C 6484.

MANUFACTURING MANAGER. Well-known manufacturing chemists in South-west Lancashire require a manufacturing manager (age 25-35). A pharmacist (Ph.C. or B.Pharm.) or chemist (B.Sc. or A.R.I.C.) with some manufacturing experience preferred, Pension scheme and five-day week in operation. Apply with full details to Box C 4866.

MIDLANDS REPRESENTATIVE required by old-established manufacturing chemists to take

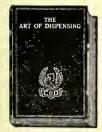
MIDLANDS REPRESENTATIVE required by old-established manufacturing chemists to take over live connection, Must be first-class salesman, preferably with some pharmaceutical experience. Resident on territory and able to provide own car. Payment by salary, commission and expenses. Contributory pension scheme. Apply stating full details in first letter to Box C 6446.

OLD-ESTABLISHED manufacturing chemists specialising in essential oils, essences, etc., require chemist for their research and manufacturing laboratories in East Yorkshire. Pharmaceutical qualifications essential and experience in pharmaceutical manufacture and analytical control desirable. Permanent position with commencing salary £850 to £1,000, Pension scheme available. Full particulars including age and copy references to Box C 6483.

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"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter.

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New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

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28 ESSEX STREET ... STRAND ... LONDON, W.C.2

Situations Open—Continued

PHARMACEUTICAL CHEMIST required with

PHARMACEUTICAL CHEMIST required with wholesale manufacturing laboratory exper.ence. Apply, in confidence, to the Managing Director, W. H. Legat, Ltd., Manufacturing Chemists, Kay Street, Bolton, Lancs. C 4813
PRODUCTION CHEMIST required for important Yorkshire company of manufacturing chemists. Must have good, all-round manufacturing exper.ence and organising ability and be able to control and direct staff. The appo.ntment has considerable possibilities and scope, Good salary in accordance with experience and ability. Box C 6456.
PROGRESSIVE MANUFACTURERS invite applications from keen and experienced men with exceptional selling ability for re-developing certain territories including: Yorkshire and Northern Counties. West Country, London North, Middlessex and Essex. London South and Southern Counties, Applicants must be car owners with well-established connections amongst retail and wholesale chemists, Cooperative Societies and Stores. The products, including medicated confectionery and well-known propr.etaries, are outstanding in presentation and selling appeal and provide exceptional scope for initiative and ability. Existing accounts handed over. Sole agencies will be considered. Send, in confidence, fullest details of selling career, age, etc. Box C 4859. REPRESENTATIVE required for London and Home Counties for the sale of essential oils, aromatic chemicals, flavouring essences, crude drugs and chemicals, etc. Attractive salary and commission. Experienced gentleman with initiative has excellent prospects. Apply to H. E. Daniel, Ltd., London, S.E.19.

SALES/REPRESENTATIVE, salary, commission, expenses: Essential established connection chemists and hospitals; drugs, dressings, proprictaries, chemists' sundries, car owners, unusual opportunity. Some London territorics vacant, Apply to Biorex Laboratories, Ltd., 47-51 Exmouth Market, E.C.1.

C 6482
TABLET MAKER required in N.W. area with experience and able to take charge of small factory. Chemical esperience an advantage. Good salary to right man and productio

VETERINARY manufacturing chemists, VEIERINARY manufacturing chemists, with national connection with the qualified profession, wish to discuss representation on their behalf on a part-time or commission basis for the South-west and Southern Counties. Could be combined with other good class representation, Box C 6455.

be combined with other good class representa-tion, Box C 6455.
YOUNG PHARMACIST, male or female, re-quired as assistant in general pharmaceutical manufacturing, ampoulc and aseptic labora-tories in the Birmingham area, Hospital experi-ence an advantage but not essential. Five-day weck, Pension scheme, House available if re-quired. Apply giving full particulars including salary required to Box C 6467.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.

RETAIL (HOME)

A RELIABLE, trustworthy man, thirty years' all-round experience, seeks responsible position, Good salesman, dispenser, references, Unqualified, used to London West End and City, Box C 4862.

C 4862.

ELDERLY MALE, very active, Hall Certificate, 17 years first-class retail, 28 as representative. Permanent or locum. Box C 4863.

LADY would like position with chemist, 30 years' experience, no dispensing, Surrey or London district. Box C 4869.

UNQUALIFIED, male, 46, good-class dispensing, counter experience. Excellent references. Frost, 55 Fencepiece Road, Ilford, Essex.

C 4854

WHOLESALE

A HIGHLY RESPECTED gentleman is looking for a reputable firm who would like a first-class representative with a connection of over 1,000 live accounts in Scotland (wholesale and retail chemists, departmental stores and coperative societies), is top salesman for his present prosperous firm and desires a change. Excellent references and further details supplied willingly, Box C 4806.

GENERAL SALES MANAGER, 49, with wide experience in the production and marketing of cosmetics, fine chemicals, proprietary and ethical pharmaceuticals, requires any position where his experience can be utilised. Car owner, and willing to travel, Box C 4858. REPRESENTATIVE, well-established connection with wholesale and retail chemists, etc., Warwickshire, Worcestershire, Leicestershire, South Staffs, offers conscientious service to firm of repute. Agencies considered. Clean licence, own car if required. Box C 4776.

AGENCIES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

AGENTS with sound chemists' connections for sale of surgical dressings (S.T's) required by firm of manufacturers. State experience, age, lines carried. Box C 6459,

BUSINESS OPPORTUNITIES

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LET US QUOTE for your powder and tablet manufacture? We can pack, dispatch and distribute from our modern plant at competitive prices. Write now to Production Director, Pharmacal Supplies, Ltd., 49 Weston Street, London, S.E.I. C 4837 MANUFACTURING CHEMISTS invite inqu.ries for the manufacture, packing, etc., of private formulæ preparations, liquids, powders, tablets. Dispatch facilities available with own printing department, Frank Macowal & Yanatas, Ltd., Willshaw, St., London, S.E.14, Tel.: Tideway 3846-8.

WANTED

17/6 for 36 words (min.) then 4d, per word. Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3, C 153 SURPLUS CHEMICALS WANTED. Amber pet, jelly, castor oil, di-ethylene glycol, parafin wax, zinc oxide, zinc stearate. State price, grade, quantity, packing and maker. A, Dennis, 99 Macoma Road, S.E.IR. C 4847 WANTED: Surplus or redundant merchandise, clearance goods of any description or discontinued lines, Cash immediately, no delay. Our representative will be pleased to call or, alternatively, please send samples with particulars, quantity and price. Lawrence Edwards & Co., Ltd., 6-7 Wellington Close, Ledbury Rd., London, W.11. Telephone Bayswater 4020. C 140

MISCELLANEOUS SALES

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BLACK FOREST natural pine-needle bath extract "Silvapin." Medically recommended. Trade price 9/6 per lb. or 3/3 per 5-0z, bottle. Aromatic, sparkling, medicated Black Forest pine-needle bath tablets 2/8\frac{1}{2} per packet of 5, all including P.T. — Retail stockists wanted. Ravika, Ltd., 64 Aldermanbury, London, E.C.2. (2486)

FOR SALE. Azo benzene 19 tons, Oleic acid 2 tons, Phenal mercury acetate 1 ton, Parathion 4 tons, Parachlorphenol 6 cwt, A. P. Dennis, 99 Macoma Road, S.E.18. C 4848 FOR SALE. One water steriliser set new and unused. Capacity 12-15 gallons per hour, pressure 3-5 lb, per square inch, gas operated. Inquiries to the Secretary, N.I., Tuberculosis Authority, 27 Adelaide St., Belfast. C 4844 HOSPITALS, chemists, manufacturing chemists, write for our free price lists for medical bottles and vials, No order too small or large, save pounds by writing or phoning Paul Daniels, Ltd., 27 Haggerston Road, Shoreditch, E.2. Shoreditch 1992.

MODERN CHEMIST SHOP fittings, drug ranges, wallcases and frameless sliding doors, display counters and showcases; all styles of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14-16 Manchester St., Liverpool.

STANDARD SACCHARIN TABLETS in packets of 100, aspirin tablets, 25's, 50's and 100's, and bicarbonate of soda in 4-oz. drums. Inquiries invited. Name and address printed no extra charge on orders of 1 dozen to 100 gross. Prices and samples on application, Tell Products, Ltd., Welbeck Works, 93 Cobbold Road, London, N.W.10, Tel.: Willesden 6873,

PREMISES FOR SALE

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FOR SALE: Birmingham, shop with self-contained flat over in olock now in course of erection on main road adjoining established shopping site; modern residential district on south side of city where there is a great demand for a chemist's shop. For full part culars apply:

J. Stanley Horrex & Partners, Estate Agents, Stanley Horrex & Partners, Estate Agents, Central 7660.

TENDERS

GATESHEAD AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE Pharmaceutical Contract

Pharmaceutical Contract

Contractors are invited to make application for tender forms in respect of pharmaceutical requirements during the six months commencing April 1, 1954.

Forms of Tender may be obtained from the undersigned by postal application within seven days of the appearance of this advert.

H. CLARK,

Group Secretary.

"The Lodge,"
Sheriff Hill I.D. Hospital,
Sheriff Hill,
Gateshead, 9.

C 6469

WEST BROMWICH & DISTRICT
HOSPITALS MANAGEMENT COMMITTEE,
GROUP (No. 18),
Edward Street, West Bromwich

Tenders are invited for the supply of Drugs and Sundries for twelve months commencing April 1, 1954. Applications for copies of Schedules and Tender Forms should be sent to the Supplies Officer at the above address immediately.

C 6461

MISCELLANEOUS

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